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This report can also be viewed on the Company website. [http:// www.kantodenka.co.jp](http://www.kantodenka.co.jp)

Environmental and Social Report 2016



● This environmental report is printed on Eco-mark certified recycled paper.
● The report was printed with vegetable oil ink that has superior capacities in curbing volatile organic compounds emissions which cause air pollution, and ensuring paper recyclability.

Kanto Denka Kogyo Co., Ltd. strives to ensure an environment-friendly attitude in its immediate matters and daily activities in order to protect people's healthy lifestyles.



R270
Percentage of Waste Paper pulp 70%

Published: December 2016

Management Principles

Through the quest for constant corporate growth and acquisition of optimum profits, Kanto Denka is working with all its shareholders, users and employees to create a successful company and prosperous society. To achieve this end, we are endeavoring to ensure that our unique technologies and superior services meet the requirements of our users and build a trusted company based on the principles of sincerity, creativity, prompt response and harmony with nature.

Fundamental Principles and Basic Policies on the Environment and Safety Issues

Fundamental Principles

The conservation of the global environment is one of humankind's common responsibilities. In all our operational activities, based on the principle of self-responsibility, we pay due consideration to environmental and safety, from the development, manufacture, distribution, and use of our products, to how they are disposed of.

Basic Policies

- 1 Carry out comprehensive "environmental and safety" management in such areas as environmental protection, operational safety and disaster prevention, occupational health and safety, chemical product safety, distributional safety, and risk-free international trade.
- 2 Ensure the safety of employees and areas in the vicinity of company facilities by working to achieve no accidents and no operation incidents.
- 3 Work to save energy and resources and reduce the amount of industrial waste generated as a result of operations.
- 4 Ensure the development and introduction of products and manufacturing processes that take "environmental and safety" issues into account.
- 5 Strictly comply with laws, regulations and agreements related to the "environment and safety", as well as establish and meet our own stricter voluntary standards in these areas.
- 6 Promote distributional safety and risk-free transactions with customers.
- 7 Carry out "environmental and safety" audits.
- 8 Collect information on the "environment and safety" related to products, and thoroughly disseminate the information to employees and customers.
- 9 Ensure the protection of the environment and safety in overseas operations, technology transfers and the international trade of chemical products.
- 10 Promote risk-awareness to society as a whole, such as local communities, investors and related organizations through the widespread dissemination of our "environmental and safety" activities, as well as the results of those activities, in environmental reports and other materials.

Corporate Profile

Company Name : Kanto Denka Kogyo Co., Ltd
Established : September 22, 1938
Headquarters : Waterras Annex, 2-105, Kanda-Awajicho,
Chiyoda-ku, Tokyo 101-0063, Japan
TEL : 81-3-3257-0371
President : Jun'ichi Hasegawa
Capital : ¥2.877 billion
Employees : 558 (as of March 31, 2016)
Sales : ¥39.016 billion

ISO 9001

A majority of the products are ISO certified.
Shibukawa Plant JQA-1009 (certified in October 1995)
Mizushima Plant JQA-2254 (certified in March 1998)

ISO 14001

Shibukawa Plant JQA-EM0438 (certified in May 1999)
Mizushima Plant JQA-EM0437 (certified in May 1999)

OHSAS 18001

Shibukawa Plant JQA-OH0087 (certified in July 2005)
Mizushima Plant JQA-OH0190 (certified in May 2011)
(OSHMS between 2007 and 2011)

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This report mainly contains environmental and social activities during FY2015 (April 1, 2015 to March 31, 2016).

Message from the Editorial Department

We would like to thank the readers for giving us many feedbacks every year. The comments received provide the Editorial Department both encouragement as well as constructive criticism as we strive to make the report an even better one. This fiscal year marks the first year of Kanto Denka's 10th medium-term management plan. To deepen your understanding of our efforts under the new action plan, we have included a three-person conversation among the President and plant managers, as well as messages from employees regarding the new initiatives. In the face of the significantly changing social environment surrounding the company, we are committed to engaging in RC activities while always setting forth new measures without remaining at the status quo. We would like to ask for your guidance and cooperation in this endeavor.



To become an "innovative, development-driven company" that further contributes to society

Kanto Denka's Activities in 2015

At Kanto Denka, the whole company is committed to "giving the highest priority to safety", "being a profitable company", and "realizing the full participation of employees in development". President Hasegawa, Shibukawa Plant Manager Hayashi, and Mizushima Plant Manager Yamaguchi discuss the activities of Kanto Denka which strives to create new values by transcending departmental and occupational boundaries.

Safety will be prioritized in everything. Such awareness and actions need to be instilled in all employees.

Hasegawa: In order for the company to adapt to the changes in the business environment and attain sustainable growth, I would like employees to return to the fundamentals and always be mindful of safety, profit, improvement, and evolvement. To achieve this end, we identified three prime themes: "giving the highest priority to safety"; "being a profitable company"; and realizing "the full participation of employees in development". It goes without saying that safety is a top priority for Kanto Denka. Maintaining a secure and stable supply of products lies at the core of earning the trust of the world market. The technologies and know-how we have gained in the course

of our long history in handling hazardous chemical materials is an asset of the company. This past year, we have worked to create a culture of reinforcing the importance of improving safety and taking active measures in this area.

Hayashi: You are right that a plant cannot exist unless it is safe. I will radicate in all employees the awareness that safety will be prioritized in everything. The Shibukawa Plant defines basic actions for safety as "FPC (finger pointing and calling), KY (hazard prediction), and 5S (Sort, Set in order, Shine, Standardize, Sustain)," and has made their enforcement a goal of the Plant. In particular, we have been putting more efforts into promoting FPC to eliminate safety check failures. We are also working with an occupational safety consultant to point out areas we would not notice ourselves, to make improvements, and to lead to an increased

awareness about safety.

Yamaguchi: Mizushima Plant has been improving signs to protect facilities and increase awareness in order to prevent troubles. In addition, in order to eliminate chemical liquid disasters that pose the greatest risk to chemical plants, we are strengthening our education and training and have been offering prudent KYT (hazard prediction training). The hazards predicted by employees differ in seriousness and scope depending on their experience. Therefore, to allow employees to have "a mock experience of anticipated risks", we plan to coordinate with Shibukawa Plant to have facilities, equipment, and trainings that would allow employees to gain mock experiences related to hazard safety.

Hasegawa: It is first and foremost important to change the mindsets of all employees towards safety. I am convinced that their

increased awareness will be reflected in their greater pursuit of safety on a day-to-day basis. Kanto Denka has put in place a new system in which an occupational safety consultant gives routine guidance to facilities so that each employee is more sensitive to safety and has adequate knowledge necessary for safety management. The plants' ongoing efforts to improve safety signs will definitely help to increase employee awareness.

Yamaguchi: Similar to the Shibukawa Plant, the Mizushima Plant established "the Safety and Health Promotion Committee" to broaden the breadth of our safety activities and reflect the opinions of workplaces in safety activities. We also set up "safety gates" at all workplaces as a show of our oath to "prioritize safety in everything."

Hasegawa: We had four major accidents occur at our facilities between 2011 and 2013. As a result of learning from these bitter experiences and taking numerous safety measures, each workplace has maintained stable operations in recent years. However, there is no end to safety efforts. Raising the safety awareness of all employees and their drive to make improvements, as well as implementing a steady stream of new measures, are essential for ensuring safety. In the chemical industry, multiple serious accidents have occurred in recent years, raising questions about whether the transfer of techniques to the next generation has not been inadequate. Kanto Denka is in the same situation. Therefore, we will be reorganizing the structure of education and trainings at the workplaces, which will also consider a revision of the personnel system to increase on-site capabilities and skills.

Hayashi: Transferring techniques and developing an ability to detect hazards are important for eliminating accidents as well as small troubles caused by safety check failures. We are seeing a decreasing trend in troubles at the plant, in part due to the company's new policy of "giving the highest priority to safety." We will create a culture where all employees work together to swiftly carry out safety measures and establish this as a corporate culture.

Kanto Denka will be "a profitable company" to become a dynamic company filled with rewarding opportunities for employees

Hasegawa: After ensuring "safety", the next thing that we want to actively pursue is



Jun'ichi Hasegawa
President

"becoming a profitable company." How much profit did an employee's work generate in terms of each product or in the manufacturing process? How much profit did today's work accumulate? I believe making the results of an employee's work visible will lead to employees finding their work rewarding and give them greater enthusiasm. This concept is embedded in the theme of "becoming a profitable company."

Hayashi: The Shibukawa Plant not only strives to enhance its facilities with a view to increasing productivity; it also actively seeks to figure out what is optimal production with the cooperation of employees, taking into account environmental protection. Such activities will translate into higher earning power that is unaffected by the external environment, contributing to rewarding opportunities for employees and their eagerness to work.

Yamaguchi: We are seeing a growing market for the battery business that we have been focusing on. The Mizushima Plant is taking steps to minimize costs by making improvements from various angles, while satisfying the needs of the market. In the fundamental chemicals business, we are making ongoing efforts to realize higher efficiency and maintain minimum cost operations. We aim to increase our overall profits by finding a good balance between these two businesses.

Hasegawa: Kanto Denka has four core

businesses: "special material gases"; "fundamental chemicals"; "batteries"; and "ferrochemicals." While these businesses are delivering stable profits, further efforts are needed to be able to generate profits even in a tough external environment.

Hayashi: I think the employees of the plant are becoming more conscious about productivity and profits in relation to their daily and monthly activities. I hope to make this more "visible" and make improvements and production innovations ceaselessly. We will strengthen our structure to be able to constantly make profit irrespective of external factors.

Yamaguchi: Our efforts to increase the operational efficiency and cut costs in the fundamental chemicals business is producing steady outcomes. As for the battery business, earning power has improved rapidly and is expected to further improve depending on our efforts. Above all, I hope that these achievements will contribute to raising the motivation of employees.

Realizing "the full participation of employees in development" by making improvements and progresses at workplaces

Hasegawa: Lastly, I would like to talk about realizing "the full participation of employees in development." What I mean is, instead of maintaining the status quo, each department will always be thinking about moving forward and making improvements and progresses to this end. I believe improving business operations will increase productivity, which will increase our corporate value as an "innovative, development-driven company."

Hayashi: At the Shibukawa Plant, improvements in various business operations are considered "development." We are working to develop a culture where all employees share and implement ideas.

Yamaguchi: I have felt that the business environment has been changing extremely quickly in the last few years. I view that "development" is needed not only for creating new products but also for existing products. Making improvements and progresses require even more coordinated "manufacturing, sales, and research" than we have ever had before. I would say that these activities need to be integrated. With the cooperation of the research department, the Mizushima Plant is also focusing on strengthening the competitiveness of the "development" of

existing products. Furthermore, it is critical that the needs of the market and the wishes of customers are swiftly communicated to the engineering team. Working together with the sales department on a day-to-day basis will be the key to accomplishing this.

Hasegawa: Creating new products requires not only identifying themes for their development. It is also crucial that the new product is unique, is superior to other products, is accepted by the market, can win the competition and gain market share, and can draw such a story, and that there is thorough management of development goals and schedule. In order to transform into a development-driven company, it will become ever more important to enhance the coordination between the research, production technology, and sales departments.

Hayashi: The theme, realizing "the full participation of employees in development," has steadily begun to transform the mindsets of the employees of the plant and is producing outcomes. For example, one of the workplaces registered record high production volume through introducing new creative efforts. Moreover, employees have begun to discuss with each other what they should do for even better outcomes. We are still mid-way into this. I hope to make the Shibukawa Plant one that takes an even more proactive approach towards making improvements.



Masatomo Hayashi
Shibukawa Plant Manager

Hasegawa: We have a scheme called "K-SF³" for improving business operations. Although roughly 600 proposals are received each year, this does not equate to each employee submitting a proposal per year. Therefore, we launched a new system for submitting "Petit kaizen (mini improvement proposals)" in order to facilitate the submission of improvement proposals no matter how trivial they may be. We hope to make this a means of realizing the full participation of employees in development. Such initiatives will make employees feel that "things will change or they can cause things to change if they work at it." I believe this will have positive implications, also in the sense of improving employee motivation.

I want all employees to work as one to make outcomes more certain

Hasegawa: Looking back on this past year, I believe we were able to tease out the areas for improvement for each of the challenges. Going forward, I expect that all employees will pool their insight and work with each other to address the areas for improvement, and thereby, achieve significant outcomes.

Hayashi: I will further increase employee awareness regarding each of the three prime themes, and the plant will make collective efforts in pursuing these themes. I will push for further improvements.

Yamaguchi: It has been one year since we started pursuing the three prime themes. I think we still have a little ways to go to feel definitive outcomes. Nevertheless, it is significant that we are seeing changes in the form of more active efforts to make progresses and improvements as well as realize safety.

Hasegawa: Since our founding, we have overcome a number of hard times by taking countless measures. The outstanding culture of everyone cooperating with each other to tackle difficulties and challenges and overcoming them steadfastly is firmly implemented in our company. These three themes are intended to improve Kanto Denka's structure to withstand a tough external environment. I trust that all employees will work as one also to tackle new challenges.

Hayashi: Our activities have only just begun. There are a pile of activities we need to engage in to achieve the three themes. All of us will take one step at a



Yasunari Yamaguchi
Mizushima Plant Manager

time to ensure that tomorrow is better than today and that the day after tomorrow is better than tomorrow.

Yamaguchi: We should focus our efforts into increasing awareness and getting ourselves in the right direction so that the outcomes we achieved can be felt by everybody, all the while solving the concrete challenges faced along the way.

Hasegawa: Kanto Denka always keeps environmental protection in mind in supplying many products essential for industries. Especially in leading-edge sectors, our products have earned customer satisfaction around the world and acquired high market share because of their high quality, environmental performance, and stable supply. All employees must continue to be strongly aware that Kanto Denka's products, technologies, and services are needed in the world in fulfilling our social responsibility as a sustainable company while meeting the expectations of customers and enhancing our competitiveness through technological innovations. Additionally, as an "innovative, development-driven company," we will make use of our unique technologies in focusing our efforts on developing new products that have high added value and aim to further evolve the company through the means of its distinctive products.



Change starts with each person and becomes a major force.

The three prime themes (giving the highest priority to safety, being a profitable company, and realizing the full participation of employees in development) have steadily permeated throughout each workplace and are transforming the mindsets and behavior of every employee.

Safety is a top priority in plant design and improvements

Hiroyuki Suzuki

(Deputy Manager, Production Engineering Dept., Shibukawa Plant)

Because facility design and process improvement are our main activities, the three themes are discussed at my workplace on a day-to-day basis. Safety is of foremost importance in designing a new plant or making improvements. We have become more conscious of giving the highest priority to safety, and we always recognize that design and improvements rest on ensuring safety. Of course, reducing manufacturing costs (raw material and personnel costs) and maximizing profits by improving processes are also major themes. With regard to safety, the finger pointing and calling practice being promoted at the Shibukawa Plant has begun to become ingrained in my body. Sometimes I find myself inadvertently finger pointing and calling in my daily life outside of work.

Reducing the 3M's contribute to realizing the three themes

Atsushi Kiyoshige

(Manager, General Affairs Sec., Administration Dept., Mizushima Plant)

As a back-office department, we contribute to realizing the three themes by promoting activities that reduce cost burden by eliminating muri (overburden), muda (waste), and mura (unnecessary variation) to bring down costs. Examples of this include reducing copy paper use, recycling industrial waste, and decreasing commuting accidents. As part of our commitment to traffic safety, we conduct trainings on accident cases, participate in the 200-Day No Accident, No Violation Challenge, and conduct campaigns on the streets during safety week. In addition, we have been taking steps to improve the fringe benefits for employees, and have installed a bread vending machine to complement beverage bending machines. Employees are happy about this as the plant operates around the clock.

It is exciting to explore what we can do as the Sales Dept.

Kouhei Ohno

(Manager, Fine Chemicals Sales Dept.-II)

Finding new clients is an evolving field of work for the sales department. When talking with customers with whom we have regular contact, it is an important activity in sales to make note of whether any new information can be obtained from them that leads to the development of new products. Kanto Denka's products are indispensable for the production of products such as semiconductors, LCD panels, and Li-ion batteries that support today's information society. Accordingly, what customers want from us is stable supply, which is also our social responsibility. We understand that a critical role of the Sales Department is to think daily about what the Department can do to meet the wishes of customers. It is rewarding when you earn customer's trust and this leads to increased sales.

Transitioning to the latest version of ISO 9001 has prompted us to improve business operations

Akiko Tsukagoshi

(Quality Assurance Sec., Quality Management Dept., Shibukawa Plant)

I thought I would never be involved in "development" work, until I realized there were also things I could be involved in. At present, we are planning to shift from the 2008 version to the 2015 version of ISO 9001, and are developing the manual and other related materials. In making this transition, our goal is to integrate the system and business activities and eliminate the 3M's. I consider such improvements a part of "development." My section consists of the section manager and me. If either of us gets sick or is in an accident and must miss work, the job will not get done for sure. For this reason, in addition to watching out for my health every day, I make a point of practicing hazard prediction and finger pointing and calling so as not to become involved in an on-the-job or off-the-job accident.

Developing safe manufacturing processes is also an important component of development work

Yoshitaka Matsuda

(Research Manager, Shibukawa Development Research Lab.)

I perceive that R&D is not only about creating new products. Realizing the safe and stable production of products is also an important aspect of development work. It is also an important part of the job of the Development Research Lab. to come up with processes for manufacturing products using the safest facilities and procedures. Of course, even in the development process, we are committed to identifying risks in the testing procedure or handling of hazardous substances, taking proper measures, and carrying out safe development work. Kanto Denka is set to change little by little. With the future vision of Kanto Denka in my mind, I am determined to demonstrate leadership and lead the team to achieve our goals.

Starting with improving the small things around us

Shuji Iori

(Manager, Production Dept.-II Sec.-I, Mizushima Plant)

The way I look at it, realizing the full participation of employees in development refers not only to major themes and changes, but also to tackling without neglecting the small things around you and each employee giving consideration to and executing it. This requires reviewing and asking questions also about your daily work. In my workplace related to manufacturing which demands safety and productivity improvements, I think about and implement what is necessary to work safely and what I can do to secure the required production volume while maintaining a balance between stable production and workload. I believe giving the highest priority to safety and realizing the full participation of employees in development in turn will make us a profitable company.

I would like to change the management structure by improving operations and integrating processes.

Koji Maruyama
Shibukawa Plant
Production Dept.-II Sec.-I

▲ Mika Saito
Accounting & Finance Dept.

Keep improving the things around you and contribute to business performance.

Aim for zero complaints by attaching importance to client needs.

Mizushima Plant
Production Dept.-I Sec.-I
▼ Shunichi Kakumoto

▲ Takashi Tanioka
Quality Management Dept.

I make a point of conducting follow-ups from the design phase for customer satisfaction.

Kaori Okawara ▶
Shibukawa Plant
General Affairs Sec. Administration Dept.

I make cost-cutting efforts from a back-office perspective.

Become a company that gives foremost priority to safety through management and checks!

Shibukawa Plant
Production Dept.-I Sec.-III
▼ Takenori Sumiya

I go about finding information that will generate profits so that everyone will be happy!

Shinichi Watanabe
Osaka Branch Office
Sales Sec.

▲ Kouhei Mukouyama
Personnel & General Affairs Dept.

I conduct active recruiting activities by listening sincerely to students' requests.

Employees are taking forward steps in unison

Shaping the next Kanto Denka with our own hands.

Employees may belong to different departments and workplaces, but their efforts combined will create the next Kanto Denka.
Employees' attitudes towards various programs and work are moving Kanto Denka forward.

Pool the strengths of individuals to make further strides!

Akiko Kuwabara
Mizushima Development Research Lab.

Mika Umekubo ▶
Fine Chemicals Sales Dept.-II

Our goal is to offer caring deliveries by placing importance on relationships with people.

Campaign to eliminate chemical burn disasters is ongoing!

Mizushima Plant
Environment & Safety Sec.
Quality & Environment & Safety Dept.
▼ Sachiko Miyake

Finger pointing and calling is always practiced at customers' plants as well!

Development & Marketing Dept.
▼ Takeshi Yoshida

▲ Yohei Okuyama
Shibukawa Development Research Lab.

Strive to reduce costs by optimizing the research process.

Make time by increasing work efficiency and build smooth relations with people.

Masahiro Maeda
Purchasing Dept.

▲ Noriyuki Sato
Corporate Planning Dept.

Aim to boost K-SF³ activities under the mini improvement system.

Look forward to the effects generated by our improvements.

Takashi Nakashima
Mizushima Plant
Production Dept.-II Sec.-I

I support R&D by enhancing information management.

Research & Intellectual Property Dept.
▼ Sanae Moriya

▲ Chiharu Hiramatsu
Nagoya Office

I manage shipments in detail to lower the workload.

◀ Taisuke Uemura
Advanced Research Lab.

Research is under way with foremost priority on safety.

◀ Hiroshi Hibino
Taiwan Kanto Denka Co., Ltd.

I want to strengthen information gathering and produce products needed by society.

7

8

Kanto Denka's carriers and technology development capacity support the production of high performance copiers and printers

Copiers and printers are indispensable to our daily lives and businesses. A carrier is the key to improving the image quality of color copying/printing as well as copying/printing at high speed and large quantities. A carrier fulfills the role of transporting the toner that is printed as letters or images on copy paper. In 1977, Kanto Denka began producing iron carriers using iron powder as the core material. Since then, the company has adapted to the development of more multi-functional and high quality copiers and printers, and has made active efforts to increase the performance of carriers as well as select materials that are environmentally friendly. Kanto Denka supports information media and communications with its outstanding technologies and reliable products.

What is a carrier? You can find the answer inside the copier.

- There are copiers at offices and convenience stores. If you open the lid, you will see a cartridge called developer unit. A carrier mixed with the toner is utilized inside this cartridge.



History of Carrier Development at Kanto Denka

Carriers have evolved in response to the development of color and high-resolution copiers. The core material has changed from an amorphous to a spherical form, and the particle diameter has become even smaller. Furthermore, its composition has evolved to become more environment friendly.

1977

Begin producing iron carriers

Iron carriers have strong magnetic force and are tailored to high-speed copying/printing. However, there were still many obstacles for high-resolution and high-durable copying/printing.



1983

Begin producing magnetite carriers

Magnetite carriers have high magnetic properties second to iron powder and are better for the environment. They are utilized in many large high-speed copiers.

1988

Begin producing Cu-Zn ferrite carriers

Ferrite carriers that include Cu (copper) and Zn (zinc) in the core material that were developed to meet demands for clearer and higher resolution colors. They are utilized for small high resolution copiers.

The use of Cu and Zn become regulated under California law.

1995

Begin producing magnesium carriers

Magnesium ferrite carriers (EF* ferrite carriers) are environmentally-friendly products that do not include heavy metals in the core material, such as Cu or Zn.

* EF: Environmentally friendly

2000

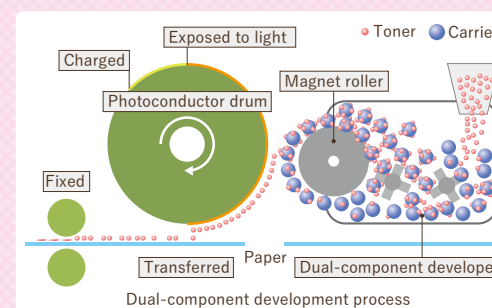
Develop environmentally-friendly coating resin

More environmentally-friendly resin began to be used to meet the rigorous environmental regulations that were established primarily in the West.

They are utilized in the manufacturing process. They reduce VOCs (volatile organic compounds) released into the air by cooling and recovering them.

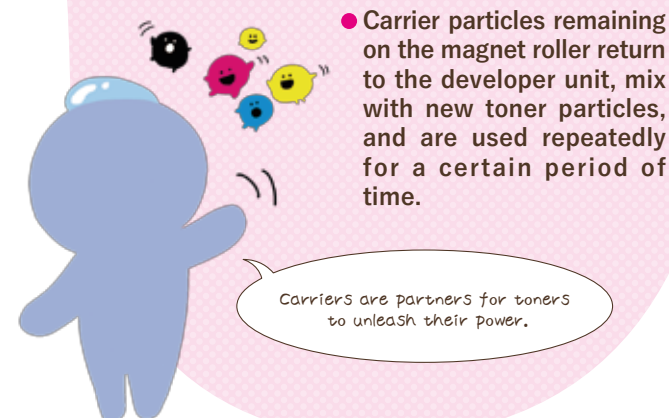
How a carrier supports high-resolution and high-speed copies

- Inside the developer unit, carrier particles are mixed with toner particles. They have the important role of transporting the toner to the surface of the photoconductor drum by giving appropriate charges to the toner through frictional charging.



The name "carrier" derives from its role of carrying the toner.

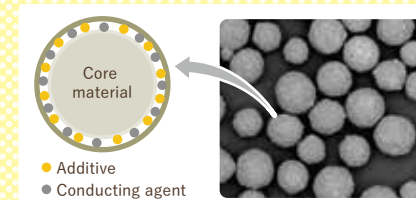
- The latest copiers can color copy at high resolutions and at high speed. Carriers support this technology.



- Carrier particles remaining on the magnet roller return to the developer unit, mix with new toner particles, and are used repeatedly for a certain period of time.

If you look at a carrier under a microscope...

- Carriers use iron, magnetite, and ferrite core materials. They adapt to different customer requests by fully drawing upon Kanto Denka's unique resin coating technology.



- Carriers have magnetic properties due to very fine (avg. particle diameter 30 – 100μm*) powders, i.e., resin coated on the surface of iron or ferrite powder. The charge capability can be adjusted by coating various resins.

*μm: micrometer (unit of length)
1μm = 0.001 millimeter

- As the core material of a carrier is kept in the magnet roller, its magnetic properties constitute a critical element. Its characteristics are adjusted by the selection of the core material. At present, carriers often utilize environmentally-friendly elements that do not include heavy metals.



Today I am environmentally friendly!

Kanto Denka makes effective use of what were formerly wastes to achieve zero waste in the carrier manufacturing process.



Kanto Denka is engaged in the development of new carriers to meet the needs of copiers and printers for high resolution, high-speed printing, full color, high durability (long life), and low environmental footprint.

RC Promotion Organization

In order to ensure responsible care (RC) and compliance, each RC promotion organization at Kanto Denka continuously conducts self-audit and evaluation, provides guidance and education, and conducts improvement activities, in addition to other activities.

Efforts Geared toward CSR

Kanto Denka believes that we, as a good corporate citizen, have a mission to society to contribute to making peoples' lives safer and more enriching. In order to achieve this goal, we strive to give priority to compliance and risk management in our business practices. Simultaneously, we endeavor to build a corporate culture for making a contribution to communities in which our facilities are located and for putting into practice initiatives for protecting the environment.

Organization



Audit Structure

Self-auditing

Each facility works to achieve continuous improvements in RC activities through the evaluation of our RC measures by linking them to the ISO14001 and OHSAS18001 systems. The results of these self-audits are reflected in the next RC objectives and plans report.

Auditing of Each Facility

The Environmental and Safety Protection Committee, the Quality Management Committee and Logistics Safety Committee once a year, respectively, conduct auditing of goals, plans, implementation systems, and performance evaluation of self-audits in all facilities. Furthermore, corrective action for some defects found at audit and sharing the common knowledge to the other department should be accomplished so that we could strengthen our management systems.

Overall Auditing

Overall auditing involves deliberation and evaluation by the RC Promotion Council of results of auditing carried out by the Environmental and Safety Protection Committee, Quality Control Committee, and Logistics Safety Committee. The results of evaluation of overall auditing are then reflected in management policies, objectives, and the implementation plans for the following fiscal year.



Internal Notification System (Hot line)

In order to respond promptly to breaches of compliance or to prevent them from happening, directors/employees of Kanto Denka are required to swiftly report information on breaches of compliance to the General Manager of the Personnel and General Affairs Dept., the Auditor, or to lawyers outside the company. In addition, the rules stipulate that the person making the notification must not be treated disadvantageously.

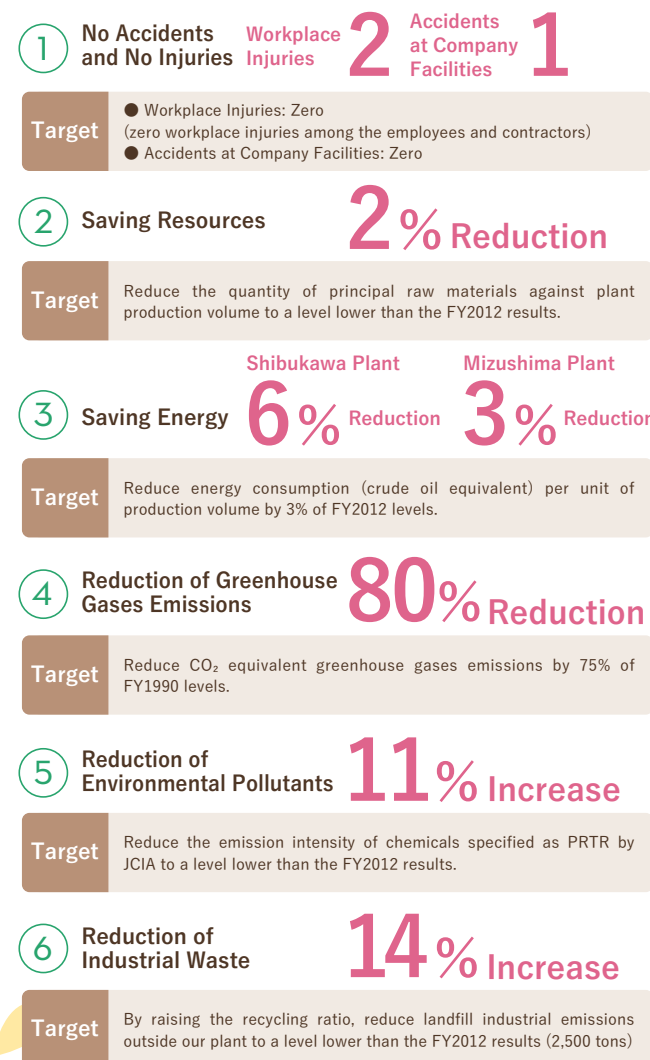
Protection of Personal Information

We have formulated and publicized a basic policy regarding the protection of personal information, and are clarifying the rules regarding the storage and disposal of personal information. We have set forth various stipulations, including those for ensuring confidentiality of personal information for persons leaving the company.

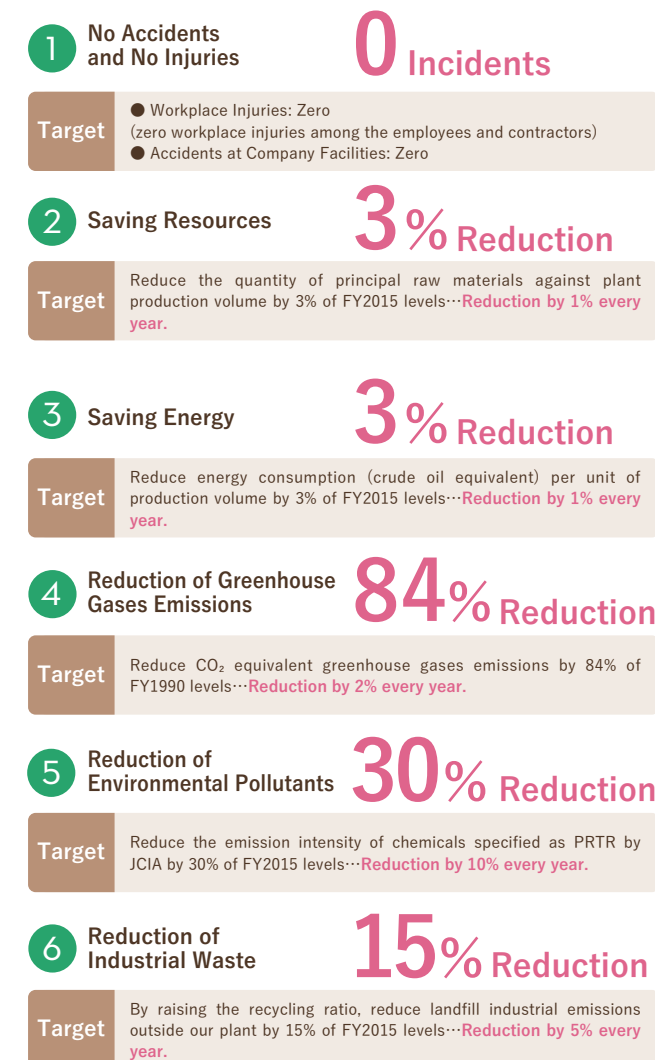
Performance and Targets in RC Activities

Kanto Denka positions the achievement the RC action targets as one of the most prioritized issues towards which the entire company is working together. The year 2016 is the first fiscal year of the new medium-term management plan. We will respond to various issues by implementing specific improvement measures and action plans, aiming to achieve solid results.

FY2015 Performance in RC Activities



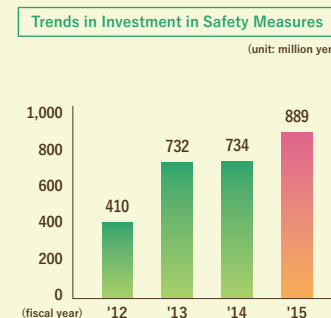
FY2016-FY2018 RC Action Target (Three-year plan)



Investment for the Achievement of RC Action Targets

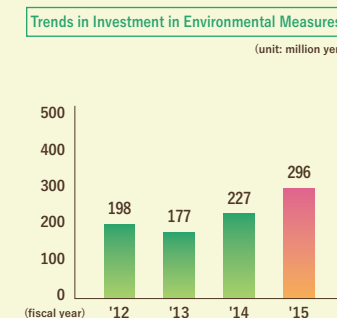
Investment in Safety Measures

For the continuation of safety operations, we focus on the update and improvement of our manufacturing facilities. Therefore, the amount of investment tends to increase year by year.



Investment in Environmental Measures

In FY2015, we made investments mainly for items such as reducing greenhouse gas emissions, energy conservation, and soil measures.



Working towards Safety

Having held the principle of giving the highest priority to safety since FY2015, Kanto Denka has promoted raising safety awareness and thorough safety behavior among its employees in each department, and has been working towards the building of safe practices on a company-wide basis.



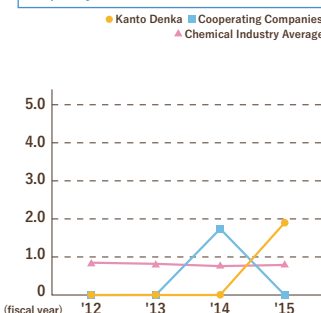
No Accidents and No Injuries

RC action target

Zero cases of work-related accidents and equipment accidents

In the reflection of past accidents and disasters, Kanto Denka conducts thorough safety management of its facilities and handling of chemical substance, as well as implementing the strengthening of safety education to raise risk awareness among its employees and upgrading of operation procedures. Despite these efforts, two minor workplace injuries of employees and one minor accident at a company's facility occurred during FY2015. From now on, we will carry out new initiatives towards no accidents and no injuries.

Frequency Rate of Lost Work-time Accidents



Trend in the number of facility accidents

Fiscal year	'12	'13	'14	'15
Number of accidents	1	2	0	1

* Frequency Rate
The frequency rate of lost work-time accidents is an index showing the number of deaths/injuries per one million hours worked. It is based on a by-industry nationwide study, carried out by the Ministry of Health, Labor and Welfare, and adjusted for company size and number of hours worked.



The safety first tower



An example of the reinforcement of safety display



An example of raising safety awareness

Building the foundation towards safe and stable operations

Kanto Denka works on the promotion of awareness that prioritizes safety and action reform, and produces positive and steady results.

Kanto Denka has newly determined the principle of giving the highest priority to safety as one of the most important issues to the company and has incorporated this into the innovation of its corporate culture. We will promote new measures to realize the objectives of, firstly, raising safety awareness and enhancing necessary knowledge for safety management of each employee.



On-site teaching by a safety consultant



Workshop by a safety consultant

- "Visualization" of safety goals at each workplace and their progress
- Reinforcement and diversification of safety displays
- Establishing a "Safety Day" and conducting safety activities every month
- Establishing an in-house training facility for safety operations
- Implementation of regular on-site teaching and workshops by safety consultants
- Training of KYT trainer and RST trainer, and implementation in each workplace
- Active participation in external safety and health workshops

* KYT (Kiken Yochi Training)

* RST (Roudousyo Safety and health education Trainer)

By informing the knowledge of safety and thoroughly ensuring safe behavior, we will resolve the potential risks and reinforce the prevention of the risks.

Safety Activities at our Plants

Promotion of Safety Education

In order to reduce potential risk factors underlying occupational injuries on a regular basis, we are aiming for more effective safety measures through provisions such as safety education during the morning meeting tailored to specific types of work. We are also improving work processes at each site as necessary in order to ensure that the safety measures are enforced.

Safety Measures for Mechanical Equipment

In addition to risk assessments of newly-built or added machinery, we conduct safety inspections based on test operation plans and periodic inspections in compliance with regulations. We also create and routinely review operating manuals, and thereby, promote safety measures for mechanical equipment.

Implementing Disaster Prevention Drills

At the Shibukawa and Mizushima plants, in preparation for accidents and industrial accidents, plant disaster self-prevention teams, workplace disaster self-prevention teams, fire-fighting squads, rescue teams, and other relevant teams are brought together to form Kanto Denka's disaster self-prevention group. Disaster prevention drills and joint training exercises with public fire departments are carried out on a regular basis. In addition, at each plant we carry out monthly and departmental disaster prevention drills, as well as emergency contact drills for our day and night duty staff.



Joint Training with public Fire Department



PL labels
These labels give product safety information

Logistics Safety

Kanto Denka is working to reduce potential risk factors in distribution through such measures as preventing deformation and damage of containers, securing the environment and safety of filling stations and distribution centers, and implementing a user facility improvement program. As part of these efforts, our Logistics Safety Committee is conducting safety auditing for each office and transporter.

Ensuring Safety in Emergencies

In order to ensure safety in the event of an accident, it is a requirement for all transportation companies to have the Yellow Card and SDS (Safety Data Sheet) documents at all times during transportation. Additionally, in preparation of a logistics accident, we have established a system in which we can deal with leakage of dangerous substances or fire by signing a contract with an external disaster prevention agency.

User Facility Improvement Program

Since 1996, Kanto Denka has been implementing ongoing activities to improve customers' facilities. If a driver finds environmental or safety anomalies at a customer site, Kanto Denka investigates it based on the transporter's report. At a later date, we make a recommendation for improvement and recommend that the customer take the appropriate steps. As a result, 138 out of 140 improvement requests made in the past have already been taken and implemented, contributing to ensuring safety at the time of delivery.

Safety Measures for Chemical Substances

As a company that handles large amounts of chemical substances, Kanto Denka pays utmost consideration to their safe management. Our chemical substances are managed in line with the PRTR Law, the Guidelines on Management of chemical Substance and the Poisonous and Deleterious Substance Control Law in incorporated in the Industrial Safety and Health Law, and are verified by third parties such as ISO 14001 and OHSAS18001. With respect to poisonous and deleterious substances which require careful handling, we are strengthening their safety management by ensuring segregation management and implementing procedural manuals.

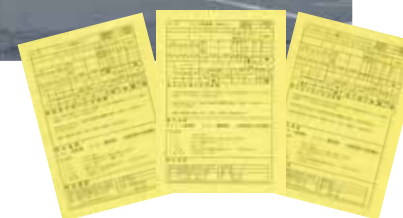
Warning Labels Based on PL (Product Liability)

All of our products are affixed with PL labels listing handling precautions. The Quality Control Committee carries out company-wide audits, including checks of the Shibukawa and Mizushima Plants and their research laboratories, to ensure that product safety measures based on the Product Liability Law are being followed. Their findings are then reported to the RC Promotion Council.

* The PL (Product Liability) Law
The PL (Product Liability) Law is a law stating that if the consumer can prove defects in a product, the manufacturer's responsibility will be questioned regardless of whether the fault lies with the manufacturer or not.



Special gas transport vehicles
make delivering products safer



The Yellow Card is a common name of an emergency contact card (with a yellow cover), which details the steps that a driver, the fire department, the police, and other emergency services should take in an emergency, in preparation of an accident occurring in the process of transporting chemical substances or high-pressure gases.

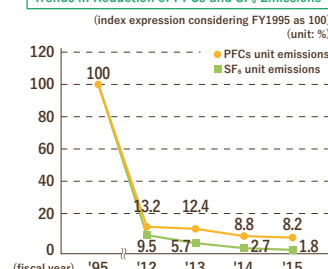
Reduction of PFCs and SF₆ Emissions

Target

JCIA's Voluntary Action Plan.
90% reduction in PFCs unit emission and 90% reduction in SF₆ unit emissions of 1995 levels, and maintain this level.

Kanto Denka manufactures PFCs and SF₆ gases that are indispensable in the electronic devices industry. As these gases have a high global warming effect, Kanto Denka, as part of JCIA's Voluntary Action, has undertaken efforts to reduce the gas emissions in cooperation with other five companies within Japan. As a new future plan, we have set the target of the reduction of PFCs unit emission and SF₆ unit emission by 90% respectively compared with FY1995, as well as the maintenance of this level. Also, since FY2014, Kanto Denka achieved this target independently, and the reduction rate has been increasing year by year.

Trends in Reduction of PFCs and SF₆ Emissions



*Greenhouse Gases
Greenhouse gases are substances that have been designated as causing global warming, including carbon dioxide, dinitrogen monoxide, methane, hydrofluorocarbons (HFCs) nitrogen trifluoride (NF₃), perfluorocarbons (PFCs) and sulfur hexafluoride (SF₆).

*PFCs
PFCs are the generic name of the compounds consisting of fluorine and carbon. Kanto Denka produces tetrafluoromethane (CF₄), hexafluoroethane (C₂F₆), octafluoropropane (C₃F₈), and octafluorocyclobutane (C₄F₈).

Reduction of Carbon

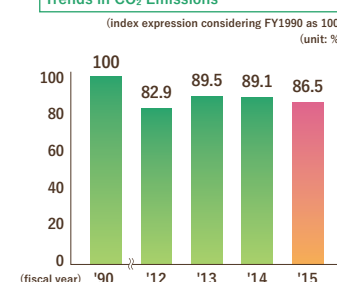
Target

10% reduction compared with FY1990

Since FY2013, carbon dioxide emissions have increased due to the increase in the overall production volume, but an over 10% reduction against the base year has continued. In FY2015, we implemented fuel substitution in part of the manufacturing process, which contributed to the reduction of emissions.

Dioxide Emissions

Trends in CO₂ Emissions



Coexistence with the Global Environment

Kanto Denka pursues productivity energy conservation by introducing reviewing production processes. By setting our own environmental attempt to achieve environmentally

enhancement and high efficiency equipment and quality standards, we continue our friendly manufacturing.

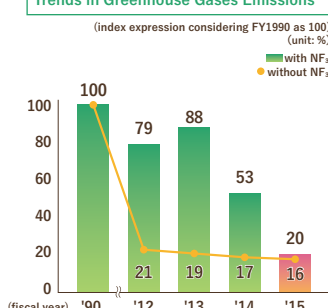
Reduction of Greenhouse Gases Emissions

RC action target

Reduce CO₂ equivalent greenhouse gases emissions by 75% of FY1990 levels

From an early stage, Kanto Denka has been working to reduce nitrogen trifluoride (NF₃) emissions, which was newly designated as the subject to reductions. In FY2015, we achieved the reduction of greenhouse gases emissions by 80% compared with FY1990 by effectively utilizing abatement equipment based on a combustion system.

Trends in Greenhouse Gases Emissions



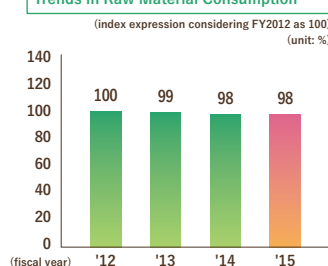
Saving Resources

RC action target

Reduce the quantity of principal raw materials against plant production volume to a level lower than the FY2012 results.

As aggregating data on saving resources is significantly affected by the soaring unit cost of raw materials, Kanto Denka is switching over to a calculation method (*) that can accurately display results without being affected by unspecified elements. By enhancing the yield of our products, in FY2015 we tried to achieve a 2% improvement compared to FY2012 levels.

Trends in Raw Material Consumption



* Base Unit = Quantity of Raw Materials Consumed (t) / Production Volume (t)*

Target for Reduction of of Substances Specified Management Standards

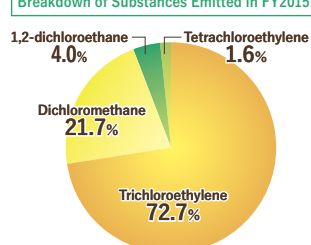
Target

Manufacturing facilities' reduction of emission amounts of substances specified by JRCC Voluntary Management Standards

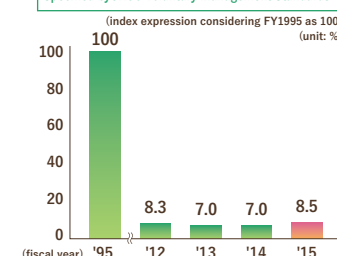
Kanto Denka currently manufactures four out of 12 substances specified by the Japan Responsible Care Committee (JRCC) for priority reduction in atmospheric emissions, which are trichloroethylene (TCE), tetrachloroethylene (PCE), 1, 2-dichloroethane (EDC), and dichloromethane. In this fiscal year, we will take measures against DCM, the emissions of which increased during FY2015.

Emission Amounts by JRCC Voluntary

Breakdown of Substances Emitted in FY2015



Trends in Emission Amounts of Substances Specified by JRCC Voluntary Management Standards

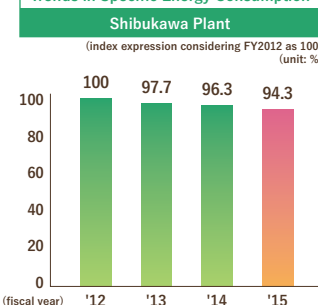


Reduction of Energy Consumption

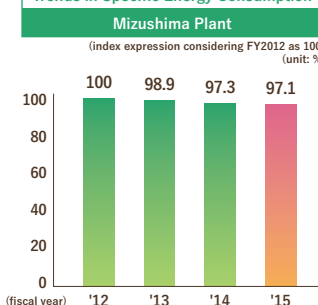
RC action target

Reduce energy consumption (crude oil equivalent) per unit of production volume by 3% of FY2012 levels.

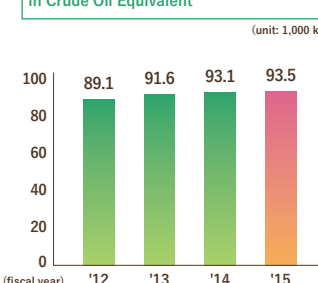
Trends in Specific Energy Consumption



Trends in Specific Energy Consumption



Trends in Energy Consumption in Crude Oil Equivalent



Since 2012, along with the increase in production, energy consumption volume has been increasing year by year, while the situation of specific energy consumption is improving at both plants through the promotion of energy conservation of power-intensive facilities. Moving forward, we will strive to continuously improve production efficiency and contain energy use, as well as to promote the reduction of specific energy consumption.

*Specific energy consumption

This index indicates the amount of energy required in the production of a certain given quantity of products. The lower the figure, the more advanced the energy conservation is.

Reduction of the emissions of environmental pollutants

RC action target

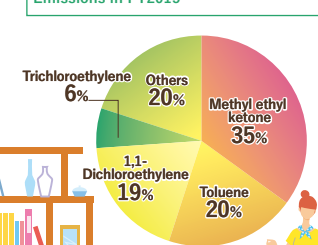
Reduction of the emission amounts of PRTR-designated chemical substances by JCIA to a level lower than the FY2012 results.

Kanto Denka handles 18 substances (including those less than 1 ton) that are specified as PRTR by law, but we manage substances in accordance with the larger range of substances specified by JCIA. In FY2015 we handled 243,000 tons of the 29 substances specified as PRTR by JCIA. The emissions amount was 25.0 tons, and the emissions unit was 103g for every 1 ton handled. Going forward, we will take measures to deal with the four substances with a large emission amount.

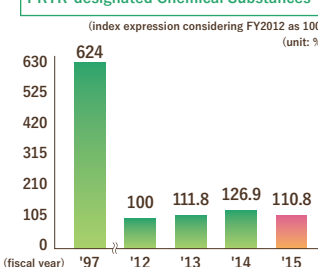
*PRTR

This is a reporting and management system to help identify the quantity of chemical substances released into the environment, including the atmosphere, water sources, and the soil, and the quantity processed as waste materials. The release and transfer quantities reported by companies are made public by the relevant authorities annually.

Breakdown of the 25.0 tons of Emissions in FY2015



Trends in Emission Amounts of PRTR-designated Chemical Substances



Reduction of Plant Waste Water and COD

Target

Reduction of the amount of plant waste water and COD emissions

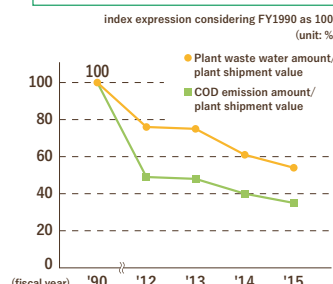
Kanto Denka has been working to reduce the volume of plant wastewater and COD emissions, by taking actions including recovering pollutant substances in our manufacturing facilities, resulting in gradual improvements.

*COD (Chemical Oxygen Demand)
One indicator of pollution in water is the amount of oxygen necessary to decompose pollutants and other substances in water. The lower this figure is, the cleaner the water.



Discharged water (cleaned at the plant)

Trends in Plant Waste Water and COD



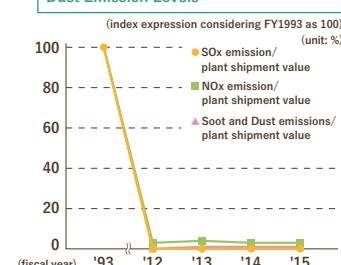
Reduction of SOx, NOx, and Soot and Dust Emissions

Target

Reduction of emissions in accordance with voluntary management standards

We are working to reduce the emissions of atmospheric pollutants, namely, SOx (sulfur oxides), NOx (nitrogen oxides), and Soot and Dust by stably operating emissions equipment. In recent years, we have maintained low levels of emissions for all of these substances.

Trends in SOx, NOx, Soot and Dust Emission Levels



Site Report

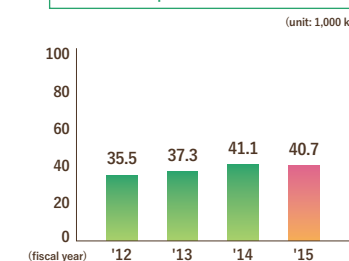
Kanto Denka has plants in Shibukawa City, Gunma Prefecture, and Kurashiki City, Okayama Prefecture. The Shibukawa Plant and the Mizushima Plant have supplied a variety of chemicals to the industry for approximately 75 years and 50 years, respectively. In addition to the manufacturing of high quality products, we are making efforts to carry out the thorough, safe operation of the plants and the enhancement of the environmental conservation in order to be regarded as plants trusted by the local communities and society.

Shibukawa Plant 1497 Shibukawa, Shibukawa City, Gunma, Japan

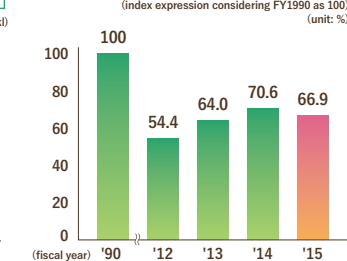
Under the policy of "full participation in development," we actively engage in the embodiment of innovative ideas. We have set the key objective that we maintain safe operation and build a plant which is trusted by the society and of which the employees can be proud.

- Plant area: approximately 138,000 square meters
- Number of employees: 259 (as of March 31, 2016)
- Products:
[Ferrochemicals] carriers, magnetite
[Fluorochemicals] sulfur hexafluoride, carbon tetrafluoride, tungsten hexafluoride, nitrogen trifluoride, hexafluoroethane, trifluoromethane, Hexafluoro-1,3-butadiene, and others

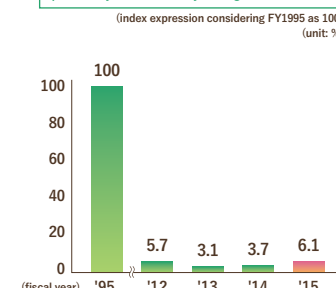
Trends in Energy Consumption in Crude Oil Equivalent



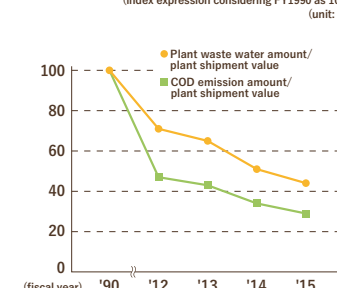
Trends in CO₂ Emissions



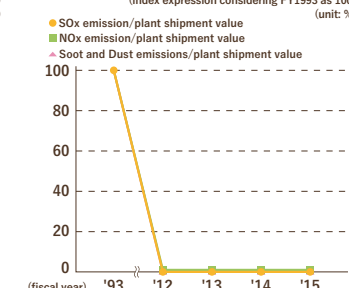
Trends in Emission Amounts of Substances Specified by JRCC Voluntary Management Standards



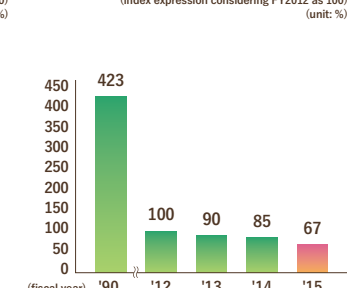
Trends in Plant Waste Water and COD



Trends in SOx, NOx, Soot and Dust Emission Levels



Trends in Industrial Waste Amount Levels



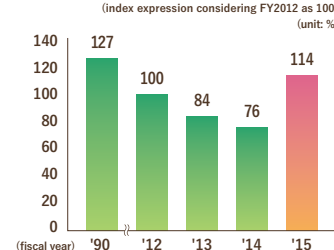
Reduction of Industrial Waste

RC action target

Reduce landfill industrial emissions outside our plant to a level lower than the FY2012 results by raising the recycling ratio.

Kanto Denka has been making proactive efforts to control, reduce and recycle the generation of waste by enhancing the yield of raw materials, and we have seen the results that the volume of waste has been decreasing. However, in FY2015, the volume of waste increased due to the significant production increase in some products. In the years ahead, we will strive for the reduction of waste by conducting new measures.

Trends in Industrial Waste Amount Levels



The Amount of Emissions of Greenhouse Gases: Report based on the Law Concerning the Promotion of the Measures to Cope with Global Warming

Kanto Denka reports data in accordance with the Mandatory Greenhouse Gas Accounting and Reporting System. The volume of CO₂ equivalent emissions in FY2015 amounted to 3.69 million tons. Since NF₃ has been designated as greenhouse gas in Japan as well, we included the amount of emissions of NF₃ in the FY2015 report.

	Figures for 2012 (official)	Figures for 2013 (reported)	Figures for 2014 (reported)	Figures for 2015 (official)
Originating from energy	21.5	23.2	23.1	22.4
*Emissions of PFCs, etc.	15.1	11.7	7.3	6.4
Emissions of NF ₃	—	—	—	7.5
Originating from distribution fuel	0.5	0.6	0.6	0.6
Total	37.1	35.5	31.0	36.9

Unit: 10,000 tons of CO₂
*Emissions of PFCs etc.
Emissions of PFCs+HFCs+SF₆

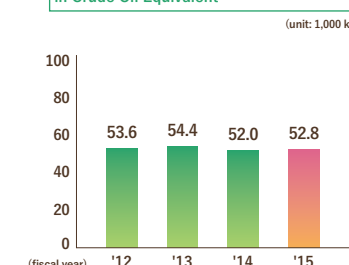


Mizushima Plant 4-4-8, Matsue, Kurashiki City, Okayama, Japan

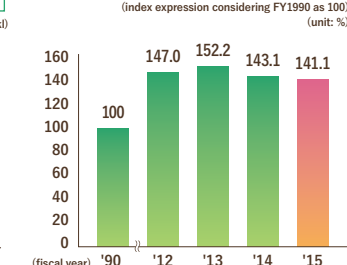
Aiming to manufacture products at the world's top level, which can contribute to the development of society, we are focusing on the development of our own unique technology and production innovation. We are currently promoting thorough, basic safety behaviors once again for the purpose of exercising the principle of giving the highest priority to safety.

- Plant area: approximately 185,000 square meters
- Number of employees: 151 (as of March 31, 2016)
- Products:
[Fundamental chemicals] caustic soda, sodium hypochlorite, hydrochloric acid, trichloroethylene, vinylidene chloride and perchloroethylene
[Fluorochemicals] lithium hexafluorophosphate, silicon tetrafluoride, chlorine trifluoride, and organic fluorine compounds

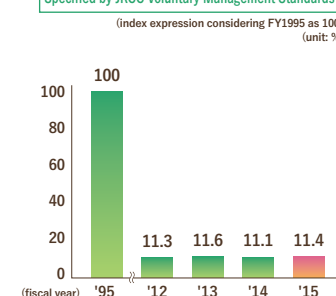
Trends in Energy Consumption in Crude Oil Equivalent



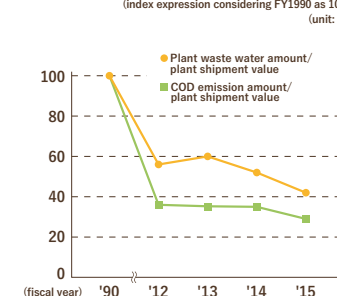
Trends in CO₂ Emissions



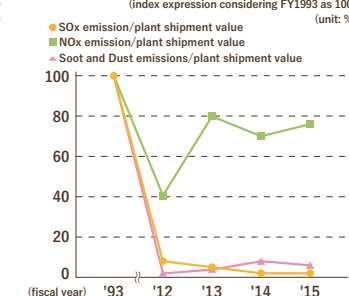
Trends in Emission Amounts of Substances Specified by JRCC Voluntary Management Standards



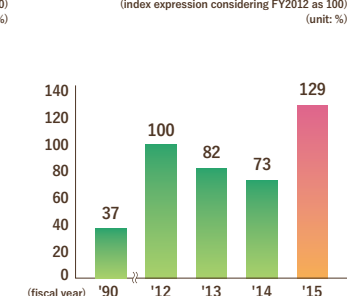
Trends in Plant Waste Water and COD



Trends in SOx, NOx, Soot and Dust Emission Levels



Trends in Industrial Waste Amount Levels



Interaction with the Local Community

Kanto Denka endeavors to deepen interactions with the community, disseminate information, and makes efforts to participate in social contribution activities.



The 50th Anniversary Event for the Mizushima Plant

The Mizushima Plant held an event to celebrate its 50th anniversary, inviting the family members of the employees. In one of the events, there was an experience-based session in which participating children would make bookmarks by coloring fallen leaves with veins only, using chemicals that are manufactured at the Mizushima Plant. This session intended to provide a chance for the children to feel their parents' workplace. Furthermore, the friendship among the participants was deepened through a Seto Inland Sea cruise.



Many children participated in the event. The plant was filled with happy cheers.



Interactions with employees were seen here and there.



Children making bookmarks with their parents. It will be a good memory for them.

Local Community Social Gathering

We hold roundtable meetings with our plants neighbors multiple times a year. We listen to the views of the local community and address their questions or concerns.

Clean-up Activities

In addition to cleaning the area around its plants, Kanto Denka participates in city- and district-led clean-up events as well as clean-up activities conducted by neighboring communities.



RC Briefing Sessions

We introduce the initiatives of responsible care activities, which are a core responsibility of companies that produce and handle chemical substances.

Plant Tours

Plant tours are offered as needed, and opinion exchanges are also held regarding operational safety and environmental activities.



Cooperation to Fire Disaster Prevention Activities

Considering the recent situation in which accidents have occurred one after another at chemical manufacturers, we held a study group at the request of the Shibukawa Fire Department to deepen mutual understanding concerning the handling of chemical substances. During the study group, we offered that in an emergency each branch of the prefectural Fire Department use any goods in the emergency material storage at Kanto Denka as necessary. In addition, we provided our old company housing to be used as a place to train search and rescue dogs. For these initiatives, Kanto Denka received a letter of appreciation from the Chief of the Shibukawa Fire Department. Both Shibukawa and Mizushima Plants will continue to strengthen the cooperation with each fire department and contribute to the safety of the community.



A training scene of search and rescue dog using old company housing.



Blood Donation Activities

With cooperation from many employees, Kanto Denka conducts blood donation activities twice a year at both plants. As our long-term activities received recognition, we previously received a commendation a few times from the Japanese Red Cross Society and the Ministry of Health, Labor, and Welfare. We intend to continue our active contribution in this area.



Blood donation at a blood donation vehicle visiting the plant.

NPO Shibukawa Regional Monozukuri Council

Employees of the Shibukawa Plant participate in the activity by the Shibukawa Regional Monozukuri Council, which works to contribute to the beautification of the environment in the local community. The bonds of friendship with the local people have also deepened through this activity.



Participation in local, roadside greening activities

Aiming to Create Dynamic Workplaces

Creating Pleasant Working Environment

A hotline for consultation regarding mental healthcare and various types of harassment is open and experts from relevant fields provide support with our employees. Kanto Denka also offers plenty of other welfare programs such as maternity leave, childcare leave and reduced working hours scheme as well as childcare leave program for male employees. In addition, internal rules such as nursing care leave regulations and senior employees (re-employment) regulations have been established and are in operation.

Offering a Wide Range of Employee Training Programs

Kanto Denka offers mental health training sessions and sexual harassment sessions, as well as different training sessions depending on employees' ranks. We also offer elective correspondence courses to support the independent studies of employees.

Holding a variety of workshops and lectures

Lectures and workshops that will be useful for the employees' day-to-day health and safety, such as lectures given by invited industrial physicians, traffic safety lectures by instructors from police stations, and the AED workshops.



Traffic Safety Lecture



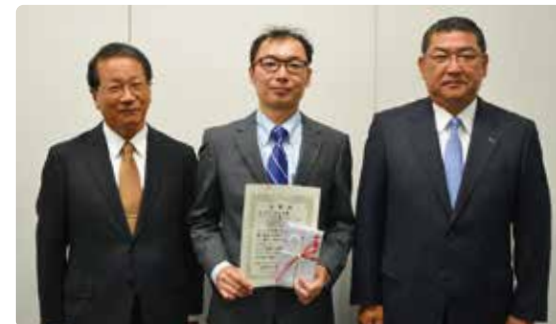
AED Workshop



Follow-Up Training for Newly Recruited Employees

K-SF³ Activities

As a business improvement activity, we operate our unique K-SF³ (Kantodenka Step Forward Cube) system. "Cube" indicates our initiatives from the viewpoint of productivity (product quality), safety and the environment. We receive approximately 600 proposals annually. In addition, for further activation of this activity, we have established a small improvement system in which employees can feel free to propose even tiny matters. The proposals made are being implemented in each department. These proposals are always available for viewing and searching, so that they can be useful for business improvement at the individual level.



Honoring Employees for their Excellent Proposals

Cultural Festival

At the Mizushima plant, works such as photographs, crafts, and bonsai are called for and displayed. It is also open to visitors for viewing.



"Ryoyu-Kai" Activities

Ryoyu-Kai provides opportunities for employees outside of the workplace to cultivate their friendship. Through various club and other activities, employees meet and interact with their colleagues whom they do not usually have a chance to interact with in their work.

