

ECO ACTION (EA) 21

Contents for Environmental Management



Toa Fuji Kogyo Co., Ltd.

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【 Note 】

In the following text:

- 28th term indicates June 2021-May 2022
- 29th term indicates June 2022-May 2023
- 30th term indicates June 2023-May 2024
- 31st term indicates June 2024-May 2025

1. Outline of organization

1) Name of business establishment and representative

Toa Fuji Kogyo Co., Ltd.
Motoi Tezuka, Director, Plant Manager

2) Location

Head Office and Fujinomiya Plant: 59 Togamihigashicho, Fujinomiya-shi, Shizuoka Pref. 418-0007
Yamamiya Plant: 2297-6 Yamamiya, Fujinomiya-shi, Shizuoka Pref. 418-0111

3) Name of Environmental Manager and Contact for PIC

Environmental Manager: Keiichi Matsuura, Chief of Guarantee Quality Group
Contact for PIC (EA Business Office): Hisato Mochiduki, Accounting Section

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Email: matsuura@toa-fuji.co.jp, mochidukih@toa-fuji.co.jp

URL: <http://www.toasiko.co.jp>

4) Summary of business

Printing, fabrication, box manufacture, package manufacture, etc., packaging, labeling, storage of cosmetics and quasi-drugs, etc.

[Introduction of products]



5) Business scale

(Note: Upper number indicates Fujinomiya Plant, lower numbers inside parenthesis indicates Yamamiya Plant)

Item	Unit	FY2021 (28th term)	FY2022 (29th term)	FY2023 (30th term)
Capital stock	yen	30,000,000		
Sales	Millions of yen (used for original unit)	2,615	2,966	2,884
Number of employees	persons	152 (51)	171 (49)	168 (48)
Floor space	sq. m.	13,480 (2,624)		
Site geographical condition	—	Light-industrial district		



Fujinomiya Plant



Yamamiya Plant

2. Target scope (scope of certification and registration), period covered by the report and issuance date

Business operator subject to certification and registration: Toa Fuji Kogyo Co., Ltd.

59 Togamihigashicho, Fujinomiya-shi, Shizuoka Pref.

Business establishments covered: head office Fujinomiya Plant, Yamamiya Plant

Period covered by the Report: June 1, 2023-May 31, 2024

Issuance date: October 31, 2024

3. Environmental management policy

<<Policy>>

1. We will contribute to the realization of a sustainable society by reducing the environment impact while conducting printing of paper containers and peripheral businesses. Out of the 17 SDG goals, we will be strongly conscious of and promote the following 7 items:
 7. Affordable and Clean Energy
 8. Decent Work and Economic Growth
 9. Industry, Innovation and Infrastructure
 12. Responsible Consumption and Production
 13. Climate Action
 14. Life Below Water
 15. Life on Land
2. We will comply with environmental-related laws and other requirements in relation to the activities and products of our organization.
3. We will identify the following items in relation to the activities and products of our organization as key themes for environmental management and strive to improve these points on a continuous basis.
 - (1) Reduction of waste (especially defective products) discharged from Plants,
 - (2) Reduction of energy consumption used in Plants,
 - (3) Reduction of carbon dioxide (CO₂) emissions from Plants,
 - (4) Reduction of water (displacement) used at Plants,
 - (5) Reduction of the amounts of chemical substances used at Plants,
 - (6) Improvement of environmental performance and service of products produced, sold and provided at Plants
 - (7) Promotion of green purchasing at Plants,
 - (8) Promotion of efforts for biodiversity conservation and sustainable use in Plants.

Effective date: November 28, 2005

Last revision: June 29, 2023

Motoi Tezuka, Director, Plant Manager

Toa Fuji Kogyo Co., Ltd.



4. Environmental management goal

Task	FY2023 (30th term) targets	Medium-to-long term targets
Reduction of greenhouse effect gas emission	Decrease by 2% compared to FY2022 (29th term)	Achieve 5% decrease in FY2024 (31st term) compared to FY2021 (28th term)
Reduction of emission of waste (Note 1)	Same or under FY2022 (29th term)	Achieve the same or under the number in FY2021 (28th term) in FY2024 (31st term)
Reduction of water use (Note 2)	Same or under FY2022 (29th term)	Achieve the same or under the number in FY2021 (28th term) in FY2024 (31st term)
Reduction of chemical substances use	Decrease by 2% compared to FY2022 (29th term)	Achieve 5% decrease in FY2024 (31st term) compared to FY2021 (28th term)
Reduction of energy use	Decrease by 2% compared to FY2022 (29th term)	Achieve 5% decrease in FY2024 (31st term) compared to FY2021 (28th term)

Note 1) Since we will set reduction of volume of emission as the goal irrespective of sales, we compare in terms of actual volume, not in terms of primary units.

Note 2) As for water use volume as well, we compare in actual volume, not in primary units.

*After the 29th term, a label division and an X-ray division will be added, and as for volumes of emission of waste and water use, we will target an equivalent level for the 28th term or even less.

5. Environmental management plan

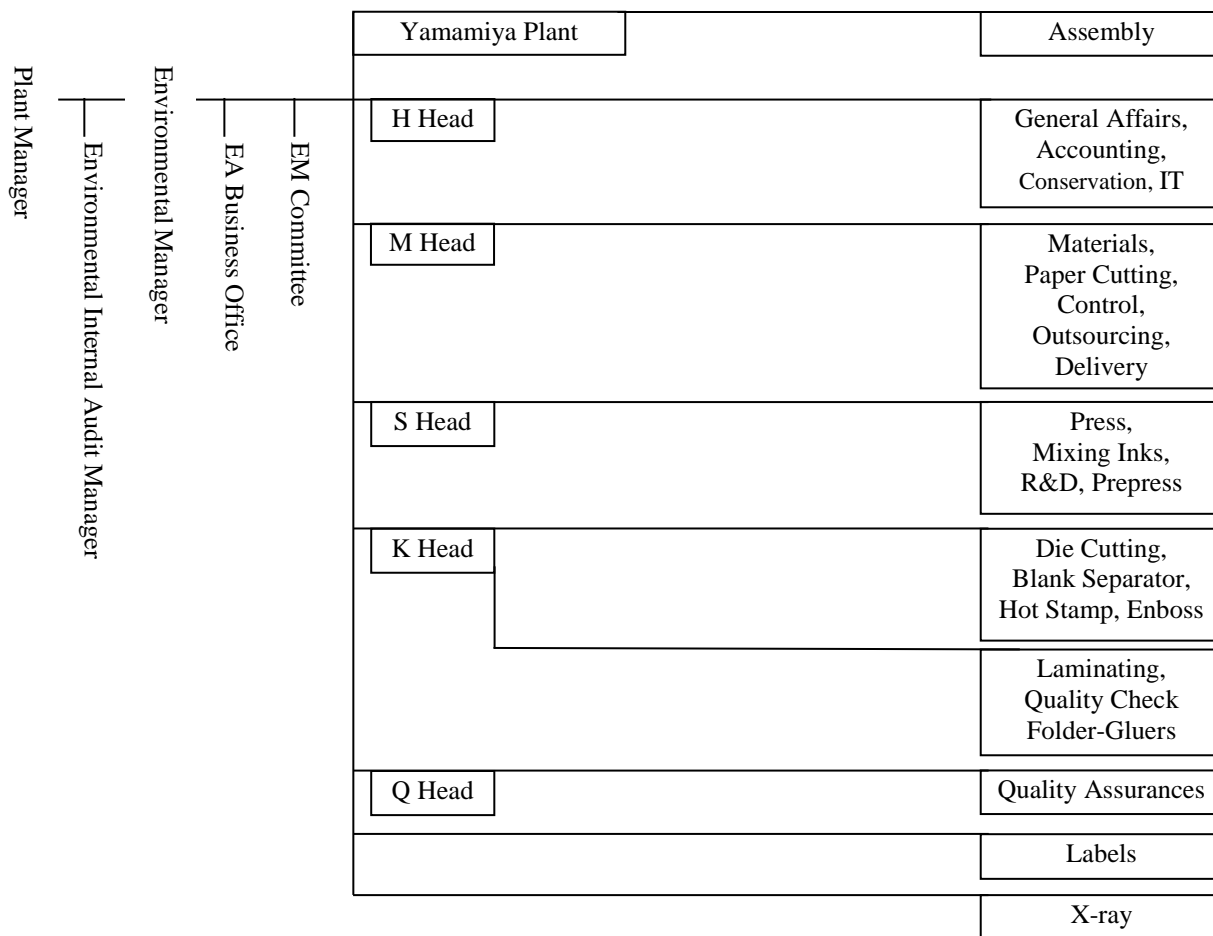
Task	Environmental management plan
Reduction of emission of waste	(1) Continue to separate and organize waste.
	(2) Reduce paper by using special papermaking size.
	(3) Continue to utilize the waste liquid reduction equipment.
	(4) Promote 3R
	(5) Reduce waste emissions by identifying and addressing the causes of printing defects.
	(6) Review the layout and cutting methods to reduce the amount of plywood and paper use volumes for cutting dies.
	(7) Promote paperless operations.
	(8) Reduce abnormalities and spoilages by manufacturing quality products.
	(9) Promote the reuse of cardboard.
Reduction of greenhouse effect gas emission and energy use volume	(1) Reduce reprint output caused by plate making.
	(2) Turn off lights frequently in the uninhabited areas.
	(3) Promote cleaning of air conditioning filters.
	(4) Turn off boilers. (lunch break time)
	(5) Promote turning off UV lamps. (During switchovers, at lunch breaks, machine repairs)
	(6) Operate air-conditioning facilities properly.
	(7) Reduce CO2 emissions by reviewing transportation methods related to materials and logistics.
	(8) Reduce manufacturing time by improving handling convenience. (Reducing energy use volume)
	(9) Promote paperless operations. (CO2 reduction)
	(10) Stabilize quality and increase production efficiency.
Reduction of water use	(1) Minimize pumping of underground water by management using timers
	(2) Manage the minimum amount of refill water for fire prevention water (reservoir).
	(3) Save water diligently.
Reduction of chemical substances use	(1) Replace with items with less impact on the environment.
	(2) Prevent solvent waste by management of use to appropriate amounts.

6. Details of effort implemented based on environmental management plan

Task	Details of effort
Reduction of emission of waste	(1) We continued to separate and organize waste and instruct thereon
	(2) We attempted to reduce paper for use by using special papermaking sizes.
	(3) We continued to utilize the liquid waste reduction equipment.
	(4) We strove to promote the 3R by, for example, reuse of copy paper, etc.
	(5) We strengthened our inspection capabilities to prevent the occurrence and leakage of color abnormalities.
	(6) We reviewed the layout and cutting methods and reduced the amount of plywood and paper use volume for cutting dies.
	(7) We promoted paperless operations for arranging forms and for change notice slips, etc.
	(8) We summarized spoilage and abnormalities and made them known to workers to raise their awareness.
	(9) We promoted the reuse of cardboard and strove to reduce both wastes and costs.
Reduction of greenhouse effect gas emission and energy use volume	(1) We compiled reasons why we had to reprint due to plate-making issues and cross checked them before plate inspection. We compiled the causes of reprint output due to plate making and collated them prior to plate inspection.
	(2) We turned off unnecessary lights frequently in uninhabited areas.
	(3) We conducted simple inspections and cleaning of air conditioner filters regularly.
	(4) We turned off boilers during lunch hour.
	(5) We turned off UV lamps (during switchovers, at lunch breaks, machine repair)
	(6) We operated air conditioners on a timer and followed temperature settings.
	(7) We consolidated the number of paper delivery and shipping trips to enable energy-saving operation of our in-house delivery services.
	(8) We strove to reduce manufacturing time by improving handling convenience. (Reducing energy use by optimizing document handling
	(9) We strove to promote paperless operations.
	(10) We strove to stabilize quality and increase production efficiency.
Reduction of water use	(1) We managed pumping of underground water to only the necessary extent.
	(2) We minimized supplemental water of fire prevention water (reservoirs).
	(3) We carried out water saving diligently when washing hands or in restrooms, etc.
Reduction of chemical substances use	(1) We strove to switch to products with less environmental impact, as necessary.
	(2) We worked on using solvent by soaking rags in it in appropriate amounts.

<p>Other initiatives</p>	<p>(1) We have declared ourselves a “Mt. Fuji SDGs Promotion Partner” and are working on this initiative.</p> <p>*The five parties of Fujinomiya City, Fujinomiya Shinkin Bank, Fujinomiya Chamber of Commerce and Industry, Shibakawa Chamber of Commerce and Industry, and Tokio Marine & Nichido Fire Insurance Co., Ltd. have mutually collaborated and launched the "Mt. Fuji SDGs Promotion Partner System" to promote SDGs activities and sustainable development in the region. We support this and have declared ourselves a "Mt. Fuji SDGs Promotion Partner."</p>
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Implementation system



7. Achievements and results of environmental management goals and environmental management plans, and their evaluation, as well as the environmental management goals and plans for the next fiscal year

Achievements of environmental management goals

(Note 1: The figures are expressed in basic units)

(Note 2: The figures in the upper row are for the Fujinomiya Plant, and in parentheses in the lower row are for the Yamamiya Plant)

(1) Reduction of greenhouse effect gas emission (Note 3: *Total amount kg-CO2)

Item	Unit	FY2021 (28th term)	FY2022 (29th term)	FY2023 (30th term)
CO2 emission	kg-CO2/ million yen	804.46	527.58	444.06
		(36.62)	(24.01)	(21.25)
		*2,199,433	*1,635,995	*1,341,949

[Emission factor]

28th term: 0.629 kg-CO2/kWh (ENERES Co., Ltd. adjusted emission factor)

29th term: June: 0.580 kg-CO2/kWh (ENERES Co., Ltd. adjusted emission factor)

July to March: 0.435 kg-CO2/kWh (TEPCO Power Grid Co., Ltd. adjusted emission factor)

April and May: 0.457 kg-CO2/kWh (TEPCO Energy Partner Co., Ltd. adjusted emission factor)

[Target value]

30th term: 2% reduction compared to 29th term ⇒ Fujinomiya Plant: 10.55 kg-CO2/million yen reduction

Yamamiya Plant: 0.48 kg-CO2/million yen reduction

*Thanks to the results of various activities and the reduction in the CO2 emission factor, we were able to achieve our goal by a large margin. (Fujinomiya Plant: 15.8% reduction, Yamamiya Plant: 11.5% reduction, total: 15.6% reduction)

(2) Reduction of emission of waste (Comparison of actual amount, not basic unit)

Item		Unit	FY2021 (28th term)	FY2022 (29th term)	FY2023 (30th term)
General waste emissions		t	0.60	0.60	0.60
Industrial waste emissions	Intermediate treatment volume (of which, recycled volume)		213.60 (160.61)	192.00 (135.87)	151.74 (112.24)
	Final disposal volume		89.72	88.24	92.00

*Waste is managed centrally, so there is no indication for each business site.

[Target value]

30th term: Same or less than 29th term ⇒ 280.84 t or less

*For 30th term the volume was 244.34 t, a decrease of 36.5 t (13.0%), so we were able to achieve the target. We were able to achieve the target through 3R activities without disposing of cutting dies and other materials collectively. Also, since this is a comparison of actual amounts, it is believed that the decrease in production volume was also a factor in the reduction in waste.

(3) Reduction of water use (Comparison of actual amount, not basic unit) Note: The figures in the upper row are for the Fujinomiya Plant, and in parentheses in the lower row are for the Yamamiya Plant.

Item		Unit	FY2021 (28th term)	FY2022 (29th term)	FY2023 (30th term)
Water use	Clean water	m ³	7,138 (351)	4,905 (386)	5,197 (415)
	Industrial water		0 (0)	0 (0)	0 (0)
	Groundwater		56 (0)	138 (0)	118 (0)
	Total		7,194 (351)	5,043 (386)	5,315 (415)

[Target value]

30th term: Same or less than 29th term⇒ Fujinomiya Plant: 5,043 m³ or less
Yamamiya Plant: 386 m³ or less

*Water use other than for humidifiers is mostly for daily life, so it is thought that water use was affected by the weather and humidification conditions.

For the Fujinomiya Plant, water usage increased by 272 m³ (5.4%), and for Yamamiya Plant, it increased by 29 m³ (7.5%), which came to an overall increase of 301 m³ (5.5%), failing to achieve target.

(4) Reduction of chemical substances use

Item		Unit	FY2021 (28th term)	FY2022 (29th term)	FY2023 (30th term)
Chemical substances use	Toluene	kg/ million yen	3.39	4.43	4.81
	1,2,4-Trimethylbenzene		0.17	0.15	0.13
	1,3,5-trimethylbenzene		0.08	0.08	0.07
	Xylene		0.08	0.06	0.05
	Hexamethylene diacrylate		0.02	0.02	0.02
	Cumene		0.01	0.01	0.00

*No chemical substances are used in Yamamiya Plant

[Target value]

30th term: 20% reduction compared to 29th term⇒ 0.95kg/million yen reduction

*In the 30th term, it increased by 0.33kg/million yen (6.9%), failing to achieve target.

As volume of use of “FZ thinner” was large, which has a high toluene content, we will re-examine how we use it so that we can reduce the chemical substances use.

(5) Reduction of energy use

Item		Unit	FY2021 (28th term)	FY2022 (29th term)	FY2023 (30th term)
Energy use	Purchased electricity (Fujinomiya Plant)	kWh/ million yen	1,228.34	1,105.16	1,067.44
	Purchased electricity (Yamamiya Plant)	kWh/ million yen	58.02	53.29	54.19
	Gasoline	L/ million yen	0.21	0.29	0.28
	Kerosene	L/ million yen	7.60	5.57	4.45
	City gas	m ³ / million yen	5.52	6.68	7.29
	Liquefied petroleum gas (Fujinomiya Plant)	kg/ million yen	0.17	0.13	0.10
	Liquefied petroleum gas (Yamamiya Plant)	kg/ million yen	0.04	0.04	0.04

[Target value]

30th term: 2% reduction compared to 29th term ⇒

Purchased electricity (Fujinomiya Plant)	22.10 kWh/ million yen reduction
Purchased electricity (Yamamiya Plant)	1.07 kWh/ million yen reduction
Gasoline	0.01 L/ million yen reduction
Kerosene	0.11 L/ million yen reduction
City gas	0.13 m ³ / million yen reduction
Liquefied petroleum gas (Fujinomiya Plant)	0.0026 kg/ million yen reduction
Liquefied petroleum gas (Yamamiya Plant)	0.0008 kg/ million yen reduction

*Results are as follows:

Purchased electricity (Fujinomiya Plant): The target was achieved with a decrease of 37.72 kWh/million yen (3.4%)

Purchased electricity (Yamamiya Plant): The target was not achieved with an increase of 0.90 kWh/million yen (1.7%)

Gasoline: The target was achieved with a decrease of 0.01L/million yen (3.4%)

Kerosene: The target was achieved with a decrease of 1.12L/million yen (20.1%)

City gas: The target was not achieved with an increase of 0.61 m³/million yen (9.1%)

Liquefied petroleum gas (Fujinomiya Plant): The target was achieved with a decrease of 0.03kg /million yen (23.1%)

Liquefied petroleum gas (Yamamiya Plant): The target was not achieved with ±0kg/million yen (±0%)

At the Fujinomiya Plant, we intentionally used a great deal of gas air conditioning (city gas) to reduce high electricity bills. As a result, we were able to achieve our target for purchased electricity, but not for city gas.

We use kerosene in the boiler for surface treatment, but the increase or decrease in boiler use in the manufacturing process affected the achievement of our target.

Achievements and results of environmental management plans, and their evaluation

(Note: Results and evaluation of efforts include the Yamamiya Plant)
 (○: Complied with and implemented, (Achieved), △: Partially complied with and implemented,
 ×: Not complied with or not implemented, (Not achieved))

Task	Environmental management plan	Effort	Result	Evaluation
Reduction of emission of waste	(1) Continue to separate and organize waste.	○	13.0% reduction	○
	(2) Reduce paper by using special papermaking size.	○		
	(3) Continue to utilize the waste liquid reduction equipment.	○		
	(4) Promote 3R	○		
	(5) Reduce waste emissions by identifying and addressing the causes of printing defects. <Theme (4)>	○		
	(6) Review the layout and cutting methods to reduce the amount of plywood and paper use volumes for cutting dies. <Theme (6)(8)>	○		
	(7) Promote paperless operations. <Theme (3)>	○		
	(8) Reduce abnormalities and spoilages by manufacturing quality products. <Theme (7)>	○		
	(9) Promote the reuse of cardboard.	○		
Reduction of greenhouse effect gas emission and energy use volume	(1) Reduce reprint output caused by plate making. <Theme (5)>	○	15.6% reduction	○
	(2) Turn off lights frequently in the uninhabited areas.	○		
	(3) Promote cleaning of air conditioning filters.	○		
	(4) Turn off boilers. (lunch break time)	○		
	(5) Promote turning off UV lamps. (During switchovers, at lunch breaks, machine repairs)	○		
	(6) Operate air-conditioning facilities properly.	○		
	(7) Reduce CO2 emissions by reviewing transportation methods related to materials and logistics. <Theme (1)>	○		
	(8) Reduce manufacturing time by improving handling convenience. (Reducing energy use volume)	○		
	(9) Promote paperless operations. (CO2 reduction) <Theme (3)>	○		
	(10) Stabilize quality and increase production efficiency. <Theme (7)(9)>	○		
Reduction of water use	(1) Minimize pumping of underground water by management using timers	○	5.5% increase	×
	(2) Manage the minimum amount of refill water for fire prevention water (reservoir).	○		
	(3) Save water diligently.	○		
Reduction of chemical substances use	(1) Replace with items with less impact on the environment.	○	6.9% increase	×
	(2) Prevent solvent waste by management of use to appropriate amounts.	△		

*<Theme (1)> etc. refers to <Theme (1)> etc. in “11. Activities and Summary Related to the Environment and SDGs” on pages 18-20.

Please refer to the details of activities.

Comments on evaluation (including causes and countermeasures for failure to achieve targets)

(Reduction of emission of waste)

We were able to achieve the target through 3R activities without disposing of cutting dies and other materials collectively. Also, since this is a comparison of actual amounts, it is believed that the decrease in production volume was also a factor in the reduction in waste.

(Reduction of greenhouse effect gas emission and energy use volume)

As a result of these activities, the environmental impact has been greatly reduced.
In addition, the CO2 emission factor for purchased electricity has been reduced, which has allowed us to achieve our goal by a large margin.

(Reduction of water use)

Water use other than for humidifiers is mostly for daily life, so it is thought that water increased by the weather and humidification conditions. We will review the settings of the humidifiers and be mindful of water conservation.

(Reduction of chemical substances use)

We were unable to reduce our chemical substance usage due to the large amount of "FZ thinner" used, which has a high toluene content. We use FZ thinner by soaking it into rags, but we will re-examine how we use it so that we do not use more than necessary.

Environmental management goals and plans for the next fiscal year

Environmental management goal	Environmental management plan
Reduction of emission of waste Same or less than 30th term (Comparison of actual amount)	(1) Thoroughly separate recyclable waste from waste.
	(2) Continue to reduce paper by making special sizes for papermaking.
	(3) Continue to use waste liquid reduction equipment.
	(4) Continue to promote the 3Rs.
	(5) Reduce waste emissions by reducing defects and stabilizing quality.
	(6) Reduce paper usage by improving paper cutting arrangement.
	(7) Properly manage ink usage. (Reduce waste ink).
Reduction of greenhouse effect gas emission and energy use volume 1% reduction compared to 30th term	(1) Reduce reprint output caused by platemaking.
	(2) Diligently turn off unnecessary lights in areas where people are not present.
	(3) Regularly clean air conditioning filters and maintain set temperatures.
	(4) Continue to shut off boilers and UV lamps. (During lunch breaks, etc.)
	(5) Reduce production time by improving handling. (Reduce energy usage)
	(6) Reduce CO2 emissions by reviewing transportation methods for materials and logistics.
	(7) Narrow the width of raw rolls to make products using the minimum amount of materials.
	(8) Promote paperless operations. (Reduce CO2)
	(9) Promote water conservation in use of toilets, etc. (CO2 reduction)
	(10) Reduce defects, stabilize quality, and increase production efficiency.
Reduction of water use Same or less than 30th term (Comparison of actual amount)	(1) Minimize the amount of groundwater pumped by using timers, etc.
	(2) Keep the amount of water replenished to the fire prevention water reservoir to a minimum.
	(3) Implement diligent water conservation measures.
Reduction of chemical substances use 30% reduction compared to 30th term	(1) Switch to products that have a lower environmental impact.
	(2) Continue to manage appropriate amounts of solvents to avoid waste.

8. Confirmation and evaluation of compliance with environmental-related laws and regulations, and the existence of violations, lawsuits, etc.

The following environmental laws and regulations are observed. There have been no violations or lawsuits in the past three years.

Environmental related laws	Laws related to emission regulations and pollution prevention	• The Basic Environment Law
		• Water Pollution Control Law
		• Noise Regulation Law
		• Vibration Regulation Law
		• Offensive Odor Control Law
	Laws related to waste, recycling, and the creation of a recycling-oriented society	• Basic Act on Establishing a Sound Material-Cycle Society
		• Act on Waste Management and Public Cleaning
		• Act on the Promotion of Effective Utilization of Resources
		• Act on Recycling of Specified Kinds of Home Appliances (Home Appliance Recycling Law)
	Laws related to the global environment, energy conservation, and chemical substances	• Act on Promotion of Global Warming Countermeasures
		• Act on Rational Use and Proper Management of Fluorocarbons
		• Act on the Rational Use of Energy (Energy Conservation Law)
		• Act on the Assessment of Releases of Specified Chemical Substances in the Environment and the Promotion of Management Improvement
	Other ordinances and regulations	• Act on Special Measures concerning Promotion of Proper Treatment of PCB Wastes
		• Shizuoka Prefecture Basic Environmental Ordinance
		• Shizuoka Prefecture Global Warming Prevention Ordinance
		• Shizuoka Prefecture Ordinance on Proper Disposal of Industrial Waste
		• Shizuoka Prefecture ordinance on groundwater collection
		• Shizuoka Prefecture ordinance on preserving the living environment
		• Fujinomiya City Basic Environmental Ordinance
• Fujinomiya City ordinance on waste disposal and cleaning (Fujinomiya City Waste Disposal Ordinance)		
Other related laws	Laws regarding factory locations	• Purification Tank Act
	Laws regarding disaster prevention and occupational safety	• Fire Service Act
		• Industrial Safety and Health Act
		• Working Environment Measurement Act
	Laws regarding cosmetics manufacturing	• Act on Securing Quality, Efficacy and Safety of Products Including Pharmaceuticals and Medical Devices

9. Overall evaluation, review, and instructions by the representative

Thank you for all your efforts in the 30th term.

Of the key themes in the Environmental Management Policy, I think we need to give more consideration to (7) promoting green purchasing and (8) promoting efforts to conserve biodiversity and promote sustainable use.

For (7), I would like workplaces involved in purchasing materials, etc. to consider this. For (8), I think there is some way to link this to the beautification of the inside and outside of factories, which is one of the SDG activities that each workplace is working on.

I look forward to further intensifying activities, including these, in the 31st term.

[Representative's instructions] Environmental Management Policy, goals, plans, and implementation structure will continue.

10. Target values for the next fiscal year and beyond

Based on the 30th term, we have set the following goals for the next fiscal year and the mid-to long-term goals (based on the 28th term).

Task	Medium-to-long term targets	Short-term goal
Reduction of greenhouse effect gas emission	5% reduction in the 31st term compared to the 28th term	1% reduction in the 31st term compared to the 30th term
Reduction of emission of waste (Note 1)	Equal to or less than the 28th term in the 31st term	Equal to or less than the 30th term in the 31st term
Reduction of water use (Note 2)	Equal to or less than the 28th term in the 31st term	Equal to or less than the 30th term in the 31st term
Reduction of chemical substances use	5% reduction in the 31st term compared to the 28th term	30% reduction in the 31st term compared to the 30th term
Reduction of energy use	5% reduction in the 31st term compared to the 28th term	1% reduction in the 31st term compared to the 30th term

Note 1) Regarding waste, comparisons are made based on actual volume rather than basic units, as the goal is to reduce waste regardless of sales.

Note 2) Water use is also compared based on actual volume rather than the basic unit.

*The Label Division and X-ray Division have been added from the 29th term but the medium- to long-term targets for waste emissions and water use are to be the same or lower than the 28th term targets.

11. Activities and summary related to the environment and SDGs

- Management Group Materials and Logistics

<Theme(1)>: Reduction of CO2 emissions related to transportation

Implementation plan: (1) Continuation of the 29th term initiatives.

(2) Consideration and implementation of additional measures (as needed).

<Goal>: CO2 emissions 21.945 t or less/month, reduction amount 1.155 t/month (5% reduction from the 29th term results)

<Activities and summary>:

In order to reduce CO2 emissions related to transportation, this term we focused on consolidating transportation services for materials and logistics.

In consolidating the number of logistics trips, which began in the first half of the year, the number of trips per month was low, but through our accumulated efforts, we were able to achieve significant results. As for the reduction of fuel costs through energy-saving driving, this was a negative result due to the increase in short-distance transportation, but the amount of CO2 reduction was 1.371 tons on average per month this term, which was a 119% achievement rate for the goal.

- Management Group as a whole (production management, materials, logistics)

<Theme (2)>: Promoting SDGs activities

<Goal>: Establishing SDGs activities among employees

<Activities and summary>:

During the term, activities were carried out mainly by SDGs committee members to establish SDGs activities among employees. As a result, by selecting sustainable initiatives in the Management Group, an environment was created in which everyone could voluntarily participate in initiatives, and initiatives were established among employees.

- Management Group Production Management

<Theme (3)>: Promote paperless operations

<Goal>: Reduction of copy paper waste... 39.8 kg/year (3.31 kg/month)

CO2 emissions reduction... 21.6 kg/year (1.80 kg/month)

<Activities>: Reduction of paper arrangements and copy paper for and change notifications, reduction of copy paper for process specification registration sheets (additional measure)

<Activities and Summary>:

Paper waste reduction: 41.55 kg/year

CO2 emissions reduction: 22.59 kg/year [Achievement rate: 104%].

In the first half of the fiscal year, the company received a large volume of orders and achieved favorable results, but in the second half of the fiscal year, a decrease in the volume of orders put the achievement of the target in jeopardy. However, additional measures implemented in March enabled the company to successfully achieve the target (99% without additional measures). We will continue to seek additional measures to promote paperless operations.

- Printing Group

<Theme (4)>: Identify the causes of printing defects and take appropriate measures to reduce waste caused by defects and reduce the environmental impact.

<Goal> Environmental impact reduction goal: CO2 emissions from waste to 1,926 kg or less (43% reduction from the 29th term)

<Activities and summary>: Cumulative total of 950.5 kg (achievement rate 203%)

CO2 emissions were significantly reduced to less than half the target. We will continue to carry out new activities to further improve the situation next term.

- Printing Group

<Theme (5)>: Reduce environmental impact by reducing reprint output caused by plate making and reducing usage

<Goal> : Environmental impact reduction goal: CO2 emissions from PS plate manufacturing 1,818 kg or less (30% reduction from 29th term)

<Activities and summary>:

Cumulative total 1593.6 kg (achievement rate 114%)

The goal was likely to be exceeded in the first half, but reprint output was reduced in the second half and was kept within the target.

Thorough confirmation of operations and confirmation that corrections were made as envisioned, and reprint output was reduced in the second half. However, since the occurrence of human factors was confirmed, there seems to be room for improvement.

We will work on quality improvement as a task for next term.

- Processing 1G

<Theme (6)>: Reviewing materials and usage methods to reduce environmental impact

<Goal>: Reduce emissions by 100kg (production/disposal equivalent)

<Activities and summary>:

(1) Converting waste foil into RPF [total CO2 reduction]

(2) Reducing plywood loss [total CO2 reduction]

The total CO2 reduction achieved by measures (1) and (2) was 228.5 kg, achieving 228.5% of the target.

By posting notices about converting waste foil into RPF at the disposal site and taking measures, each worker understood that converting to RPF is not just about reducing CO2

emissions, but also one of the SDGs activities, and their awareness of environmental activities improved.

In addition, by continuing to work on this activity rather than being satisfied with achieving one result, we were able to achieve results that far exceeded our target. In particular, the plywood-related initiative expanded with ideas leading to derivative activities, resulting in three initiatives.

- Quality Assurance Group

<Theme (7)>: Reduce defects, waste, energy consumption, and CO2 emissions

<Goal>: 1. 30th term: 21 or fewer complaints in packaging department, 3 or fewer complaints in labels department

*Add 0 complaints in Yamamiya Plant from November in the initiative

2. 30th term: Printing process shortfall of 1,800,000 yen or less, printing process non-standard work of 75 cases or less

<Activities>: 1. Stabilize quality in the entire factory

2. Stabilize quality in the printing process

<Activities and summary>:

30th term cumulative: 19 packaging complaints (including 3 at Yamamiya Plant), 1 label complaint, overall target achieved within the target value, but Yamamiya Plant's target was not achieved.

30th term cumulative: 637,795 yen printing shortfall, 76 non-standard printing work, shortfall amount achieved within the target values, but non-standard work exceeded the target by 1 case

Although some of the targets were not achieved, the number of complaints and shortfalls were the best results in recent years, so we believe that this was effective in reducing waste emission, energy consumption, and CO2 emissions, as well as stabilizing quality.

- Label Division

<Theme (8)>: Make products using the minimum amount of materials

<Goal>: Reduce material usage by 5% and reduce CO2 emissions by 4.59 kg/month

<Activities>: Efforts to reduce the width of the original roll

<Activities and Summary>

Cumulative total: 20.92 kg, 41.4% of the cumulative total goal (50.49 kg)

The number of orders for the target products was low, resulting in a low achievement rate.

We would like to continue our activities to reduce material usage.

- X-ray Division

<Theme (9)>: Improve production efficiency and reduce electricity usage.

Promote the seven SDG items.

<Goal>: Reduce electricity usage by 10% and reduce CO2 emissions by 3,981 kg per year.

<Activities and Summary>:

Activities were carried out to improve production efficiency by increasing the planned daily production volume for all processes.

The reduction in CO2 emissions for the full year was 6,851 kg, an effective 172.1% of the target of 3,981 kg.

- Beautification activities

On Saturday, April 27, 2024, volunteers made up of employees and their families gathered to clean and plant trees on and around the factory grounds.

As many volunteers came together and worked together, the work went smoothly and the inside and outside of the factory became very clean. In addition, by each participant planting trees, they were able to develop an attachment to the plants they planted and develop an awareness of wanting to maintain them.

