

Environmental Questionnaire 2003

Instructions

- 1) First, please fill out your company contact for this questionnaire in the box below.
We may make inquiries about what you will have answered in the questionnaire.
- 2) Next, please answer the questions about your company's environment-related activities, which start from the next page. The questionnaire consists of eight Parts. Please begin with Part 1.
 - Part 1. Environmental Policy (1-1 ~ 1-19)**
 - Part 2. Environmental Management System (2-1 ~ 2-16)**
 - Part 3. Environmental Accounting (3-1 ~ 3-14)**
 - Part 4. Environmental Communication (4-1 ~ 4-21)**
 - Part 5. Environmental Performance (5-1 ~ 5-27)**
 - Part 6. Environmental Risk Management (6-1 ~ 6-3)**
 - Part 7. Environmental Business / Technology Development (7-1 ~ 7-5)**
 - Part 8. Other (8-1 ~ 8-15)**

There are three types of questions. Make sure to answer each question according to question types.

- **Underline or Table type: Please fill in numbers or sentences.**
- **“ ” type: Please check one applicable item.**
- **“ ” type: Please check one or more applicable item(s).**

- 3) You may find it difficult to answer some of the questions because they may not be applicable to your company's operation. In that case, you can leave them blank. Please answer as many questions as possible.
- 4) After you have finished answering the questionnaire, please send it to us by **May 12th (Monday)** via fax or mail.

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 The Japan Research Institute, Ltd.
 1-16 Chiyoda-ku, Tokyo 102-0082 JAPAN

- 5) If you have any questions, please feel free to contact us.
 Phone : 03-3288-4616 (Matsumoto) FAX : 03-3288-4689 e-mail : eco-enq@ird.jri.co.jp
 CSR analyst team: Adachi, Sato, Ishida, Muto, Kimura, Shiratori, and Hagiwara

Company Contact Data

Company Name : _____
Department / Section : _____ **Respondent's Name:** _____
E-mail : _____ **Phone :** _____
Address : _____
Homepage : _____



As for the personal information that you fill out, we only use it for providing you with various information from our company, or tallying, analyzing and sending the result of the questionnaires to you. We will place strong controls on those information. If you need correction, disclosure, or deletion, please contact us.

In addition, due to commission of EIRIS, Sou Consulting, Ltd., conducting "Survey on Social Responsibility among Japanese Corporations," may send the result of this questionnaire along with that of theirs.

Part 1 .Environmental Policy

1-1 Does the company have an environmental policy?

Yes No (Go on to "2-1" in page 4.)

Overview

1-2 What proportion of your company's operation is the environmental policy applied to?

_____ %

1-3 What was the range of denominator used to answer the question 1-2?

All the group companies included in our consolidated accounting: (_____ companies) = (_____ sites)

Our company as well as principal domestic subsidiaries: (_____ companies) = (_____ sites)

All the operating sites of our company: (_____ sites)

A part of the operating sites of our company (ex: Only the factories) : (_____ sites)

Other: (_____)

1-4 Does your company make the environmental policy available to the public?

Yes No (Go on to "1-6" below.)

1-5 How is it made available to the public?

Through an environmental report

Through Website

Other _____

Contents

1-6 In the environmental policy, how does your company define the way of setting aims and goals for environmental stewardship?

Our policy states that we set up concrete aims and targets, and improve them periodically.

Our policy states that we set up concrete aims and goals.

Our policy does not mention the establishment of concrete aims and targets, but states that we improve them periodically.

Our policy mentions nothing about aims and goals.

1-7 Which of the following activities does your company mention in the environmental policy?

Implementation of Environmental Management System (EMS)

Periodic check and review of EMS

Conduct of environmental audit

1-8 Which of the environmental measures does your company mention in the environmental policy?

Resource saving

Energy saving

Environmental pollution control

Waste reduction

1-9 Does the environmental policy mention the disclosure of environmental activities and performance through an environmental report?

Yes

No

1-10 Does the environmental policy mention communication and dialogue with stakeholders such as neighboring people, stock holders, and business partners?

Yes

No

Contents (continued)

1-11 Does the environmental policy mention the compliance with environmental laws and regulations?

Yes

No

1-12 Does the environmental policy state that you conduct environmental activities in the process of product / service development and production?

Yes

No (Go on to "1-14")

1-13 Please describe the details.

1-14 Does the environmental policy mention any activities for sustainable development?

(*ex. transformation from fossil fuel to renewable energy, Zero emission activities etc.)*

Yes

No (Go on to "1-16" below.)

1-15 Please describe the details.

Organization/Participating Parties

1-16 Does your company have a specialized department or committee for the promotion of environmental activities?

Yes

No (Go on to "1-18")

1-17 What kind of organizational structure do you have?

We have a specialized department for environmental activities.

We have a company-wide committee for environmental activities.

1-18 Does your company join any environmental organizations or sign any principles/announcements?

CERES Principles - A model corporate code of environmental conduct, promoted by the Coalition for Environmentally Responsible Economies (CERES).

WBCSD (World Business Council for Sustainable Development) - A coalition of international companies united by a shared commitment to sustainable development.

IBLF (The International Business Leaders Forum) - An international organization to promote responsible business practices that benefit business and society.

UNEP Statement by Financial Institutions on the Environment and Sustainable Development (*Applicable only for financial institutions)

1-19 Does your company conduct business in accordance with those charters / guidelines?

ICC Business Charter for Sustainable Development - Principles to encourage enterprises to improve, manage, measure and report their environmental performance.

UN Global Compact - Principles drawn from the Universal Declaration of Human Rights, the ILO's Fundamental Principles on Rights at Work and the Rio Principles on Environment and Development.

OECD Guidelines for Multinational Enterprises - Guidelines for MNEs to encourage their positive contributions to economy and society and to minimize their difficulties.

Natural Step - A science-based principles to help organizations integrate social, environmental and economic sustainability into core strategy and operations. (* Applicable only for manufacturing industry)

Responsible Care - A voluntary initiative in the chemical industry to safely handle products from inception in the lab, through manufacture and distribution, to ultimate disposal. (* Applicable only for manufacturing industry)

Part 2 .Environmental Management System

2-1 Does your company have an Environmental Management System (EMS)?

Yes No (**Go on to "3-1" in the next page.**)

Range of EMS Implementation

2-2 What percentage of your company's operation is EMS (including ISO14001) applied to?

_____ %

2-3 What was the range of denominator used to answer the question 2-2?

All the group companies included in our consolidated accounting: (_____ companies) = (_____ sites)

Our company as well as principal domestic subsidiaries: (_____ companies) = (_____ sites)

All the operating sites of our company: (_____ sites)

A part of the operating sites of our company (ex: Only the factories) : (_____ sites)

Other: (_____)

2-4 If you have ISO14001, please answer the percentage of the implemented sites. (Use the denominator of 2-3)

_____ %

Overview

2-5 When your company introduced the EMS, did you extract the challenges of environmental impacts based on the characteristics of your business field?

Yes No

2-6 Does your company set the short- and long-term targets of EMS?

We set quantitative targets.

We set qualitative targets.

We do not set any goals.

2-7 Does your company clarify administrative responsibility for EMS? (ex. preparation of a manual / guideline etc.)

Yes No

2-8 Does the EMS execution plan include daily check system?

Yes No

2-9 Does your company have internal environmental audits by executives for the purpose of EMS revision?

Yes No (**Go on to "2-13" in the next page.**)

2-10 To which part of your company is the result of internal environmental audits published?

All of our company

Relevant departments

Not published

2-11 Does your company provide the public with information on the result of internal environmental audits?

Yes No (**Go on to "2-13" in the next page**)

2-12 How does your company provide the information to the public?

Through an environmental report

Through Website

Other _____

Overview (continued)**2-13 Does your company conduct external environmental audits?**

Yes

No (Go on to "2-16")

**2-14 Does your company provide the public with information on the result of external environmental audits?**

Yes

No (Go on to "2-16")

**2-15 How does your company provide the information to the public?**

Through an environmental report

Through website

Other

2-16 If your company has own EMS except ISO14001, please describe it briefly.

Part 3 .Environmental Accounting**3-1 Does your company conduct an environmental accounting?**

Yes

No (Go on to "4-1" in page 7.)

**Environmental Costs****3-2 Does your company give an accounting of environmental costs?**

Yes

No (Go on to "3-6" in the next page.)

**3-3 What percentage of your company's operation is the environmental accounting applied to?**

_____ %

3-4 What was the range of denominator used to answer the question 3-3?

All the group companies included in our consolidated accounting: (_____ companies) = (_____ sites)

Our company as well as principal domestic subsidiaries: (_____ companies) = (_____ sites)

All the operating sites of our company: (_____ sites)

A part of the operating sites of our company (ex: Only the factories) : (_____ sites)

Other: (_____)

3-5 Do you make reference to any of the following for calculating environmental costs?

The Guideline issued by Ministry of the Environment

Other _____

Environmental Benefits

3-6 Does your company give an accounting of the benefits of environmental measures?

Yes

No (Go on to "3-11" below.)



3-7 How does your company calculate the benefits of environmental measures?

We calculate the benefits in physical unit in accordance with the Guideline issued by Ministry of the Environment.

We calculate the well-marked benefits in monetary unit in accordance with the Guideline issued by Ministry of the Environment.

We calculate the benefits based on hypothetical calculation in money terms in accordance with the Guideline issued by Ministry of the Environment.

We qualitatively describe the benefits based on hypothetical calculation accordance with the Guideline issued by Ministry of the Environment.

3-8 What percentage of your company's operation is included when calculating the benefits of environment measures?

_____ %

3-9 What was the range of denominator used to answer the question 3-8?

All the group companies included in our consolidated accounting: (_____ companies) = (_____ sites)

Our company as well as principal domestic subsidiaries: (_____ companies) = (_____ sites)

All the operating sites of our company: (_____ sites)

A part of the operating sites of our company (ex: Only the factories) : (_____ sites)

Other: (_____)

3-10 Do you make reference to any of the following for calculating the benefits of environmental measures?

The Guideline issued by Ministry of the Environment

Other _____

Disclosure and Utilization of an Environmental Accounting

3-11 Does your company reflect the result of an environmental accounting to decision-making process at the management level?

Yes

No

3-12 Does your company provide the public with information on the result of an environmental accounting?

Yes

No (Go on to "3-14")



3-13 How does your company provide the information to the public?

Through an environmental report

Through website

Other _____

3-14 Does your company get any written third-party written comments on the result of an environmental accounting? (* Including third-party comments in an environmental report)

Yes

No

Part 4 .Environmental Communication

4-1 Does your company publish an environmental report?

Yes

No

4-2 Does your company have a plan to publish it in the future?

Yes (Month: _____ /Year: _____)

No (Go on to "4-13" in the next page.)

Environmental Report

4-3 When was the latest environmental report published?

Month: _____

Year: _____

4-4 When is the next environmental report to be published ?

Month: _____

Year: _____

4-5 What percentage of your company's operation is covered in the environmental report?

_____ %

4-6 When you answered the question 4-5, what was the denominator used?

All the group companies included in our consolidated accounting: (_____ companies) = (_____ sites)

Our company as well as principal domestic subsidiaries: (_____ companies) = (_____ sites)

All the operating sites of our company: (_____ sites)

A part of the operating sites of our company (ex: Only the factories) : (_____ sites)

Other: (_____)

4-7 Do you make reference to any of the following for publishing the environmental report?

The Guideline issued by Ministry of Environment

GRI (Global Reporting Initiative) Guideline

Other _____

4-8 Does your company make the environmental report available to the public?

Yes

No (Go on to "4-10")

4-9 How is it made available to the public?

All text available on website

Overview available on website

All text available in a booklet

All text available in a booklet

Other _____

4-10 Is your company's contact information provided in the environmental report?

Yes

No

4-11 Does the environmental report include third-party comments?

Yes

No

4-12 Does the environmental report provide any of the following information?

(* In case of no complaints, the environment report must mention the fact of no complaints, accidents etc.)

Complaints about environmental issues

Accidents or pollution which might cause environmental problems

Violation of environmental laws

Other Communication

4-13 Which of the following does your company use as communication channels of the environmental activities and performance? (* Except for an environmental report)

- Annual report
- Site report
- Environmental stakeholders meeting
- Press release
- Website
- Support for environmental NPOs
- Environmental events held by our company (exhibition, seminar etc.)
- Environmental events held by other companies (exhibition of eco-products etc.)
- Other _____

4-14 Does your company have any self- regulation on the expression in environmental advertisement?

- Yes
- No

4-15 What kind of environmental activities does your company conduct for local community?

- Disclosure of our operating sites to neighboring people
- Disclosure of environmental information to neighboring people
- Distribution of educational materials on environment to local schools
- Other _____

4-16 Does your company possess any environmental labels issued by independent organizations?

(ex. eco-labeling, International Energy Star Program etc.)

- Yes
- The concept of environmental labels does not suit our business activities. (Go on to "4-20")

4-17 If your company has environmental labels, please provide up-to three names of the labels and the categories of major qualified products. If you have annotation, use Memo space.

1. (Label : _____) (Product category : _____)
Memo _____
2. (Label : _____) (Product category : _____)
Memo _____
3. (Label : _____) (Product category : _____)
Memo _____

4-18 Does your company have your original environmental labels or standards in order to inform customers how your company's products contribute to the environment?

- Yes
- No

4-19 What kind of educational programs do you provide for employees on the environmental conservation?

- Environmental education for all the employees
- Publishing news letter or magazine on environment issues
- Environmental awareness-raising programs for employees' families
- Other _____

4-20 If your company has ever won environmental awards, please provide up-to three names of the awards.

1. (Award: _____) (held by _____)
2. (Award: _____) (held by _____)
3. (Award: _____) (held by _____)

4-21 If your company has any other unique activities in the area of environmental communication, please describe it below.

Part 5 .Environmental Performance

Instructions: Categories of Environmental Performance & Range of Data Collection

Now, we are going to ask you ten categories of questions about environmental performance data from question 5-1 to 5-10.

It is understandable that some of the respondents (ex. non-manufacturing business etc.) may find it difficult to answer the following questions. In that case, leave it blank. Please answer as many questions as possible.

Input into Operation

5-1 Resource Input

Input of raw materials, components, and packaging materials (except water, and energy)

5-2 Water Usage

Usage of clean water, industrial water, groundwater, seawater etc.

5-3 Energy Consumption

Consumption of electricity, gas, petroleum etc.

Output from Operation

5-4 Greenhouse Gas Emissions

5-5 Waste Discharge

Volume of waste discharged out of operating sites.

5-6 Final Waste Disposal

5-7 Production Volume

Volume of goods produced

5-8 Water Discharge

Water discharge into sewage systems and public waters

Environmental Management

5-9 Compliance

Accidents, violation of laws etc.

Other

5-10 Other Category

Emissions to atmosphere, water, and land
/ Environmentally friendly products or services
/ Transportation, distribution etc.

* In each question, please choose a data-accounting range from A to E, which is defined as follows:

A: All the group companies included in our consolidated accounting

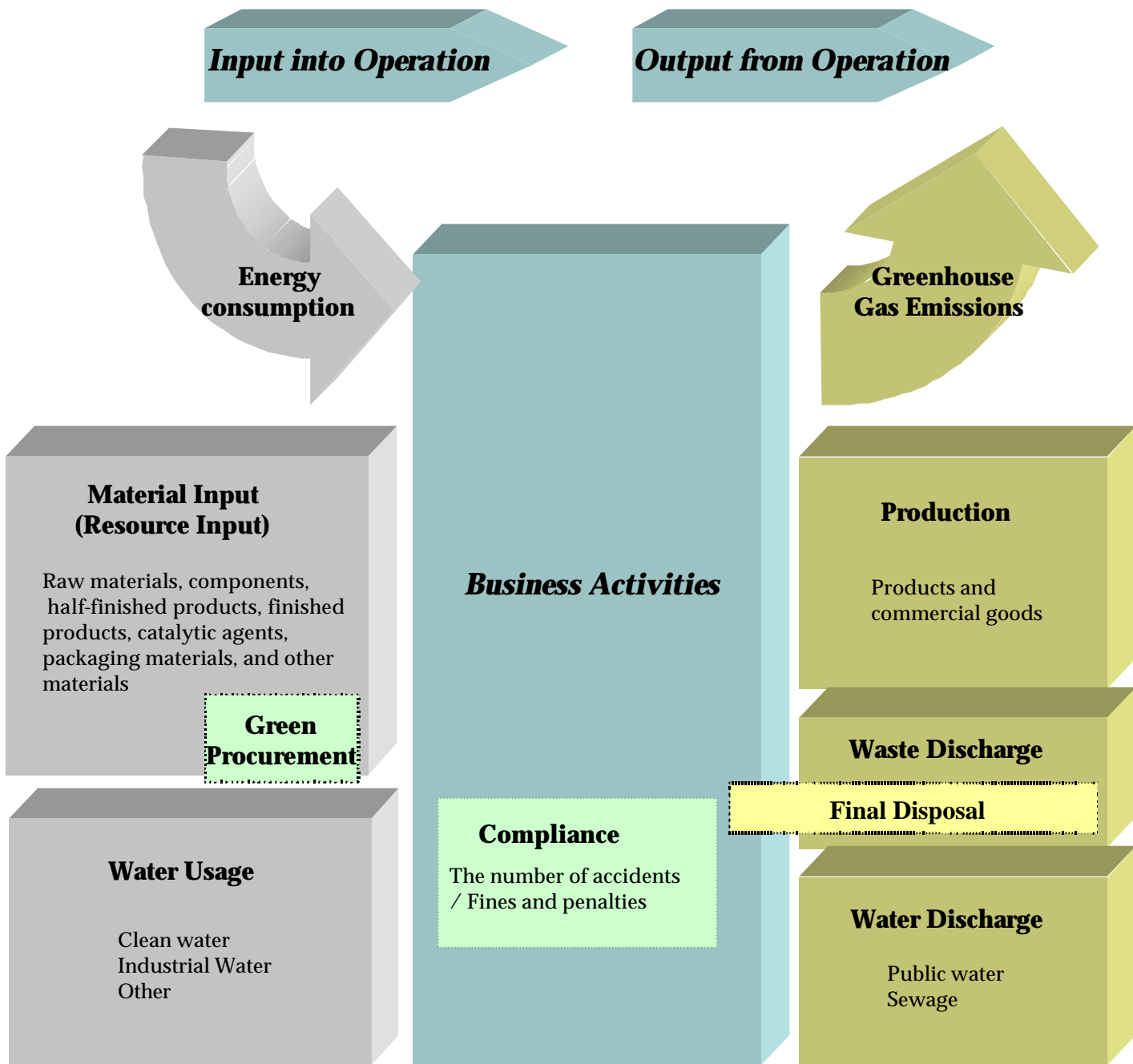
B: Our company as well as principal domestic subsidiaries

C: All the operating sites of our company

D: A part of the operating sites of our company

E: Other

Image: Relationship between Categories and Business Activities



Instructions

Please answer the questions from 5-1 to 5-10 in accordance with the following instructions.

1. Index

Check boxes where information is available in your company.
If additional data is available, provide new index and data in the blanks below.

2. Accounting Range

Select and circle an alphabet from A to E, which most accurately represent the range where the data was collected, following the instructions in the bottom of page 9.

3. Basic Year

Where performance goals are set, provide a basic year as well as performance data in the year.

4. Data

Fill in numerical performance data in the index for fiscal year 1999, 2000, and 2001.

5. Target Year

In case performance goals are set, write a target year as well as performance target in the year.

6. Unit

Specify a unit for each numerical data. (ex. "kg", "kg/million US\$ sales" etc.)

	Index	Accounting Range	Basic Year FY: <u>1995</u>	FY 1999	FY 2000	FY 2001	Target Year FY: <u>2003</u>	Unit
V	Total Resource Input	A, B , C, D E ()	150	145	140	130	120	mil. kg
	Major Material Input	A, B, C, D E ()						
V	Container/Packaging Material Input	A, B , C, D E ()	15	15.7	14.2	13.1	12	mil. kg
V	Paper	A, B, C , D E ()	50	45	40	30	20	kg per employee
		A, B, C, D E ()						

Resource Input

5-1 Please fill in the blanks below in accordance with the instructions above.

	Index	Accounting Range	Basic Year FY: _____	FY 1999	FY 2000	FY 2001	Target Year FY: _____	Unit
	Total Resource Input	A, B, C, D E ()						
	Major Material Input	A, B, C, D E ()						
	Container/Packaging Material Input	A, B, C, D E ()						
		A, B, C, D E ()						
		A, B, C, D E ()						

Water Usage

5-2 Please fill in the blanks below in the same manner as the question 5-1.

	Index	Accounting Range	Basic Year FY: _____	FY 1999	FY 2000	FY 2001	Target Year FY: _____	Unit
	Water Usage	A, B, C, D E ()						
	Water Intaken	A, B, C, D E ()						
		A, B, C, D E ()						

Energy Consumption

5-3 Please fill in the blanks below in the same manner as the question 5-1.

	Index	Accounting Range	Basic Year FY: _____	FY 1999	FY 2000	FY 2001	Target Year FY: _____	Unit
	Energy Consumption *1	A, B, C, D E ()						
		A, B, C, D E ()						
		A, B, C, D E ()						

*1: The total consumption of electricity, gas, and petroleum

Greenhouse Gas Emissions

5-4 Please fill in the blanks below in the same manner as the question 5-1.

	Index	Accounting Range	Basic Year FY: _____	FY 1999	FY 2000	FY 2001	Target Year FY: _____	Unit
	Greenhouse Gas Emissions	A, B, C, D E ()						
	CO2 Emissions	A, B, C, D E ()						
		A, B, C, D E ()						
		A, B, C, D E ()						

Waste Discharge

5-5 Please fill in the blanks below in the same manner as the question 5-1. (* See the Image below.)

Index	Accounting Range	Basic Year FY: _____	FY 1999	FY 2000	FY 2001	Target Year FY: _____	Unit
Waste Discharge *2	A, B, C, D E ()						
	A, B, C, D E ()						
	A, B, C, D E ()						

*2: The volume of landfill disposal within the company's property, plus, the quantity of non-products carried out of the property (including waste, valuable materials, and by-products)

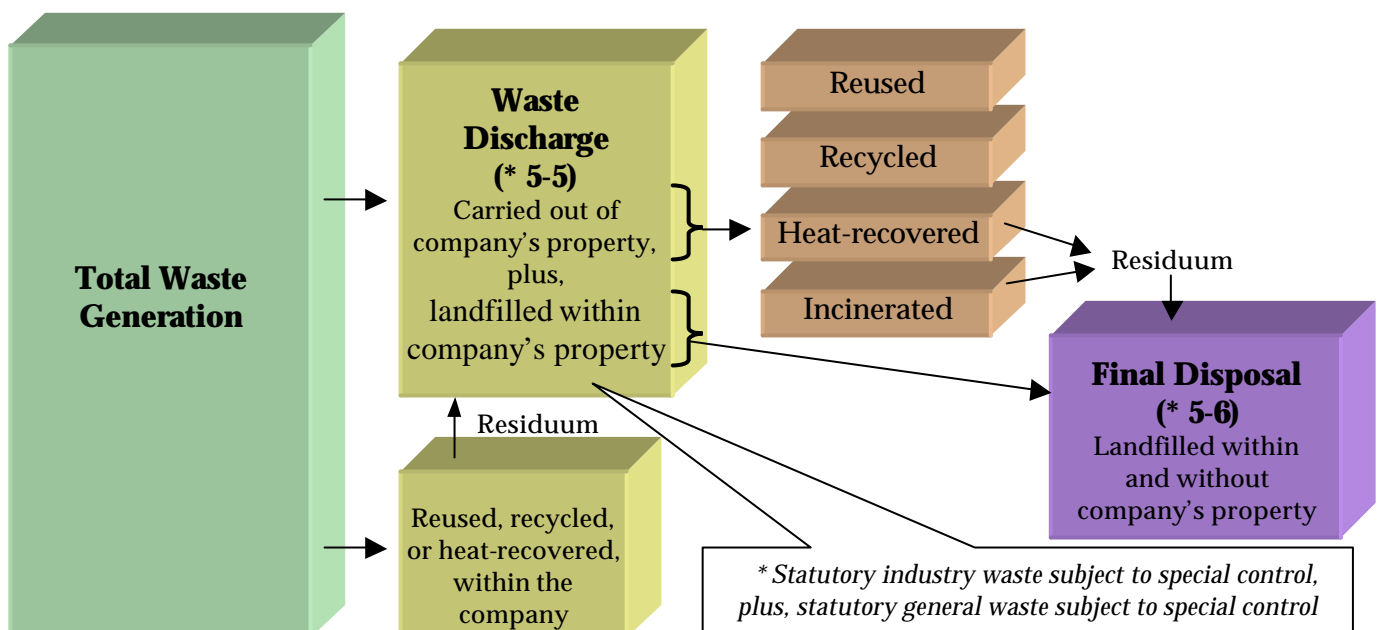
Waste for Final Disposal

5-5 Please fill in the blanks below in the same manner as 5-1. (* See the Image below.)

Index	Accounting Range	Basic Year FY: _____	FY 1999	FY 2000	FY 2001	Target Year FY: _____	Unit
Final Waste Disposal *3	A, B, C, D E ()						
	A, B, C, D E ()						
	A, B, C, D E ()						

*3: The volume of landfill disposal both within and without the company's property (including waste, valuable materials, and by-products)

Image : Relationship of Indices (5-5 and 5-6)



Production Volume

5-7 Please fill in the blanks below in the same manner as the question 5-1.

	Index	Accounting Range	Basic Year FY: _____	FY 1999	FY 2000	FY 2001	Target Year FY: _____	Unit
	Total Production Volume	A, B, C, D E ()						
		A, B, C, D E ()						
		A, B, C, D E ()						

Water Discharge

5-8 Please fill in the blanks below in the same manner as the question 5-1.

	Index	Accounting Range	Basic Year FY: _____	FY 1999	FY 2000	FY 2001	Target Year FY: _____	Unit
	Water Discharge * 4	A, B, C, D E ()						
		A, B, C, D E ()						
		A, B, C, D E ()						

*4: The volume of water discharged into sewage or public water

Compliance with Environmental Laws & Regulations

5-9 Please fill in the blanks below in the same manner as the question 5-1.

	Indicators	FY 1999	FY 2000	FY 2001
	The Number of Environmental Accidents			
	Fines and Penalties Imposed by Environmental Laws (US\$)			

Other

5-9 Please fill in the blanks below in the same manner as the question 5-1.

You can also provide us with your own major indicators such as eco-friendly products/services, transportation, distribution etc.)

	Indicators	Accounting Range	Basic Year FY: _____	FY 1999	FY 2000	FY 2001	Target Year FY: _____	Unit
	SOx Emissions to Atmosphere	A, B, C, D E ()						
	NOx Emissions to Atmosphere	A, B, C, D E ()						
	COD Emissions to Water *5	A, B, C, D E ()						
		A, B, C, D E ()						
		A, B, C, D E ()						
		A, B, C, D E ()						
		A, B, C, D E ()						

* 5: Chemical Oxygen Demand

Financial Indicators

5-11 The performance indicators that you have provided in the questions from 5-1 to 5-10 will be evaluated in terms of per-unit figures as well as absolute figures.

Please choose and check sales volume or output volume as the denominator to be used in order to calculate per-unit figures, and then fill in both of the tables below.

1. Consolidated accounting basis

	Index	FY 1999	FY 2000	2001	Unit
	Sales Volume				
	Output Volume				

2. Single accounting basis

	Index	FY 1999	FY 2000	FY 2001	Unit
	Sales Volume				
	Output Volume				

Those who used “B”, “D”, or “E” as the data-calculating range in the questions 5-1 to 5-10, please choose and check sales volume or output volume, and then fill in the blanks below.

B : Our company as well as major related companies

(The number of companies: _____ The number of operating sites: _____)

	Index	FY 1999	FY 2000	FY 2001	Unit
	Sales Volume				
	Output Volume				

D : A part of the operating sites of our company (The number of operating sites: _____)

	Index	FY 1999	FY 2000	FY 2001	Unit
	Sales Volume				
	Output Volume				

E : Other (_____)

	Index	FY 1999	FY 2000	FY 2001	Unit
	Sales Volume				
	Output Volume				

Product Assessment

5-12 Does your company implement product assessment (quantitative evaluation and improvement to reduce the environmental impact of products)?

Yes Our business does not suit product assessment.
 (Go on to "5-17" below.)

5-13 What does the product assessment set as targets among the following environmental capabilities of products?

Energy saving Resource saving
 Recycling efficiency Packing materials
 Chemical substances
 Other _____

5-14 What percentage of your company's operation is the product assessment applied to? Please describe the logics of calculation? (ex. "ratio to sales volume" etc.)

_____ %
 Logics of calculation : _____

5-15 Does your company conduct LC-CO2 assessment? (* LC-CO2 : CO2 emission throughout product life cycle)

Yes Our business does not suit LC-CO2 assessment. (Go on to "5-17" below.)

5-16 What are the targets covered by LC-CO2 assessment among the following phases of product life cycle?

Procurement Transportation
 Production Sales
 Usage Disposition

Green Procurement (Raw Materials)

5-17 Does your company conduct the green procurement of raw materials?

Yes No (Go on to "5-21" in the next page.)

5-18 Does your company have a comprehensive guideline for the green procurement of raw materials?

Yes No

5-19 What is the percentage of the companies which implement EMS among suppliers of green procurement? Please select and check a calculating basis.

	Calculating basis	Ratio
	In terms of the number of suppliers	%
	In terms of the transaction	%

5-20 What was the denominator used to answer the question 5-19 ?

Only major suppliers
 All the suppliers

Green Procurement (Office Equipment etc.)

5-21 Does your company conduct the green procurement of office equipment etc?

Yes No (Go on to "5-25" below.)



5-22 Does your company have a comprehensive guideline for the green procurement of office equipment?

Yes No

5-23 What is the percentage of the companies which implement EMS among suppliers of office equipment? Please select and check a calculating basis.

	Calculating basis	Ratio
<input type="checkbox"/>	In terms of the number of suppliers	%
<input type="checkbox"/>	In terms of the transaction	%

5-24 What was the denominator used to answer the question 5-23?

Only major suppliers
All the suppliers

Transportation

5-25 If you conduct any activities to reduce environmental impact originating from transportation, please describe it briefly. (ex. commuting, modal shift etc.)

(* If the data is available on NOx emissions resulting from transportation, please provide it here.)

Collection and Recycle of Used Products

5-26 If you conduct any activities for collecting and recycling of used products, please describe it briefly.

(* If the data on recycling rate etc.is available, please provide it here.)

Biodiversity

5-27 If you conduct any activities to enhance biodiversity for environmental preservation, please describe it briefly. (Ex .Creation of Bio-tope etc.)

Part 6 .Environmental Risk Management

6-1 Does your company have a training program or a contingency plan in preparation for environmental accidents?

Yes No

6-2 Does your company conduct any activities to assess the extent of contamination in soil or ground water on company's property or in the vicinity?

Yes No

6-3 How is the procedure of remediation and disclosure defined in case of contamination?

It is defined that we disclose the fact of contamination immediately, and conduct remediation if necessary. Nothing is pre-defined about the response to the defection of contamination, so each problem is dealt with on a case-by-case basis.

Part 7 .Environmental Business / Technology Development

7-1 Does your company have any environmental businesses as a new business project?

Yes No

7-2 What percentage of the total sales does the sales of environment al business account for?

_____ %

7-3 Does your company have environment -related R&D (Research and development)?

Yes No (Go on to "8-1" in the next page.)

7-4 What percentage of the total investment does the investment to environmental technology development account for?

_____ %

7-5 Please give a brief description of environmental business and technology development in your company.

Part 8 .Other

Overseas Operation

8-1 Does your company have operating sites overseas?

(* including overseas affiliated companies included in a consolidated accounting)

Yes

No (Go on to "8-7" in the next page)



8-2 Please select an applicable item regarding an environmental policy at the operating sites abroad.

We apply the common environmental policy to all the operating sites abroad.

We have environmental policies according to regions and characteristics of each site at all the operating sites abroad.

We have an environmental policy at a part of the operating sites abroad.

We do not have an environmental policy at the operating sites abroad.

No information is available regarding the operating sites abroad.

8-3 Please select an applicable item regarding EMS at the operating sites abroad.

We apply the common EMS to all the operating sites abroad.

We have EMSs according to regions and characteristics of each site at all the operating sites abroad.

We have EMS at a part of the operating sites abroad.

We do not have EMS at the operating sites abroad.

No information is available regarding the operating sites abroad.

8-4 Please select an applicable item regarding the calculating range of environmental accounting at the operating sites abroad.

We collect the data at all the operating sites abroad.

We collect a part of the data at all the operating sites abroad according to regions and characteristics of each site.

We collect the data at a part of the operating sites abroad.

We do not collect the data at the operating sites abroad.

No information is available regarding the operating sites abroad.

8-5 Please select an applicable item regarding the calculating range of environmental performance at the operating sites abroad.

We collect the data at all the operating sites abroad.

We collect a part of the data at all the operating sites abroad according to regions and characteristics of each site.

We collect the data at a part of the operating sites abroad.

We do not collect the data at the operating sites abroad.

No information is available regarding the operating sites abroad.

8-6 Please select an applicable item regarding the way of disclosure about operations abroad.

We disclose the common environment report globally.

We disclose the environment report to each regions and countries.

We disclose it on overseas offices site report.

We do not disclose any report about overseas activities.

We do not comprehend overseas information.

Action against Global Warming

“General Framework Concerning the Promotion of Measures to Cope with Global Warming” drawn up by Japanese government in March this year lists a series of concrete measures in order to achieve the goal of Kyoto protocol. In the following parts, please answer the questions regarding the following three categories of measures against global warming, which are particularly related to business activities.

1. Reduction of CO₂ emissions especially in energy supply and demand
2. Reduction of greenhouse gases (HFC, PFC, and SF₆).
3. Enhancement of CO₂ absorption by forests.

8-7 Is your company a member of “Japan Federation of Economic Organizations (Keidanren) Voluntary Action Plan on the Environment”?

Yes No (**Go on to “8-9”**)

8-8 Is your company positively active in realization of goals of anti-global warming measures in “Voluntary Action Plan on the Environment”?

Yes No Neither

8-9 Does your company have any factories or operating site selected as “Designated Energy Management Factories” of “Law concerning the Rational Use of Energy”?

We have “Type 1” of Designated Energy Management Factories. (Number of the sites : _____)

We have “Type 2” of Designated Energy Management Factories. (Number of the sites : _____)

None

8-10 What kind of measures does your company conduct for the reduction of CO₂ emissions in energy demand?

(1) Which of the industrial sector-measures has your company undertaken?

(* Please provide data their effects as well where possible.)

Measures	Reduction of CO ₂ Emissions (*CO ₂ equivalent)	Energy Savings (*Crude oil equivalent)
Introduction of highly efficient industrial furnaces *1	t-CO ₂	kL
Introduction of Gas co-generation system	t-CO ₂	kL
Introduction of highly efficient machines for manufacturing equipment	t-CO ₂	kL
Introduction of Energy management system for product lines.	t-CO ₂	kL
Improvement of control system (automatic control system of product line etc.)	t-CO ₂	kL
Intoroduction of Waste heat recovery	t-CO ₂	kL
Improvement of production/manufacturing process	t-CO ₂	kL
Prevention of dissipation (heat insulation/thermal insulation)	t-CO ₂	kL
Promotion of fuel conversion	t-CO ₂	kL
Other (_____)	t-CO ₂	kL

*1: Highly efficient industrial furnaces: An industrial furnaces to recover the heat of gas emissions by regenerative heat exchanger (re-generative type), preheat the air blowing in the furnace, and reduce the enzyme in the furnace to burn fuel (high air-fuel).

(2) Which of the public sector-measures has your company undertaken?

Introduction of highly efficient water heater

Introduction of equipment with lower standby power consumption.

Introduction of buildings with high energy savings.

Introduction of Business Energy Management System (BEMS)

Introduction of ESCO (Energy Service Company)

Introduction of equipment which meet the requirements of a leading runner approach

(3) Which of the transportation sector-measures has your company undertaken?

- We introduced low-emission vehicles or low-fuel vehicles as company cars.
- We load vehicle equipment compatible with Intelligent Transport Systems (ITS).
- We promote eco-friendly driving (loading of idling-stop equipment etc.) when we use company cars.
- We promote the use of public transportation among employees.

8-11 Which measures has your company undertaken to reduce CO2 emissions supply?

(* Please provide their volume and effects as well where possible.)

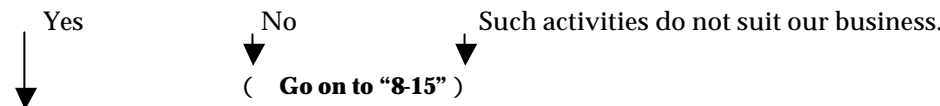
Measures	Scale	Reduction of CO2 emissions (* CO2 cequivalent)	Energy Savings (* Crude oil equivalent)
Solar Energy	kW	t-CO2	KL ·kWh
Wind Energy	kW	t-CO2	KL
Waste Energy	kW	t-CO2	KL
Biomass Energy	kW	t-CO2	KL
Solar Thermal Utilization	?	t-CO2	KL
Unutilized energy	?	t-CO2	KL
Waste Thermal Utilization	?	t-CO2	KL
Biomass Thermal Utilization	?	t-CO2	KL
Black Liquor/Waste materials	?	t-CO2	KL
Purchase of Green Power Certification *2	kW	t-CO2	?
Other ()		t-CO2	KL

*2: A certificate to prove the purchase of wind power, sold by Japan Natural Energy Company, Ltd.

8-12 If your company has any activities to reduce greenhouse gas emissions other than CO2 emissions, please fill in the blanks. (ex. collection of HFC in equipment etc.)

1. Activities: _____
2. Effects of greenhouse gas reduction: _____ t-CO2
3. Investment: _____ thousand dollars

8-13 Does your company conduct urban planting and/or greening of roofs?



8-14 Please describe the details on urban planting and/or greening of roofs.

8-15 If your company conducts planting and/or forest stewardship (weeding, brushing, improvement cutting, tree thinning etc), please describe the details.

The questionnaire is over. Thank you for your cooperation.