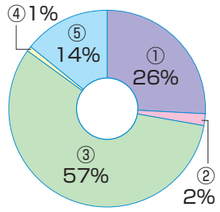
1. Food-related Products

アースサポート株式会社

Company name	Earth Support Corporation	
Product name	**Sodatsundesu!! Sukusuku (organic liquid fertilizer)**	**Final Product**
PCR Name & ID	Organic Liquid Fertilizer	**PA-AN-01**
Product Outline (Verified in FY2009)	500ml PET bottle – one bottle	



606g
CO_2

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▶This organic liquid fertilizer is manufactured from the raw garbage, etc., of commercial food waste which undergoes fermentation and decomposition by microbial action. The distinguishing feature is that, as the manufacturing facility does not discharge any gas, wastewater or by-products, the CO_2 emissions of the production process are low.

Process	① Acquisition of raw materials	② Production	③ Transport/sales	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	26%	2%	57%	1%	14%	606g

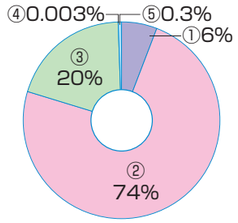
2. Lifestyle Products

PCR Name	PCR ID
●Flowers	PA-AW
●Towel Products	PA-BL
●Lamps for General Lighting	PA-AT
●Curtain Rails	PA-BT
●Tableware (Ceramic and synthetic resin products)	PA-AQ
●Fire Extinguisher	PA-BA
●Plastic Containers and Packaging	PA-BC

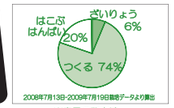
N.B. The PCR codes shown do not include the edition numbers.

Note
- ●Out of the products which were given verification of their carbon footprints of products (CFP), those representative from each category (use) have been selected and introduced, focusing on products that were displayed in the 2011 Eco-Products exhibition. Regarding all the products, please refer to the list of products authorized to use the CFP label, at the back.
- ●The calculation coverage for carbon footprints has partly changed in FY2010 from that of FY2009. The Sales Process in the Transport/Sale Stage in FY2009 was eliminated in FY2010 as a tentative measure during the pilot project period.
- ●With regard to the lower section "Percentage of CO_2 emissions" for each product, an entry of "0%" in that section for a final product indicates that no CO_2 is emitted during the said process of that product. An entry of "-" for intermediate goods indicates that the said process is not included in the calculation coverage.

Company name	Marchenrose co., Ltd	
Product name	**Marchenrose Roses**	Final Product
PCR Name & ID	Flowers	**PA-AW-01**
Product Outline (Verified in FY2009)	The amount of per one stem of rose shipped by Marchenrose Co., Ltd. Calculated according to cultivation data from July 13 2008 to July 19 2009	



961g
CO_2
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号：CV-AW-001

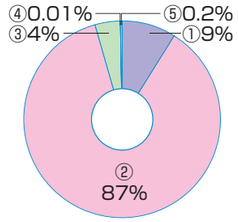


※表示の数字は
バラ1本あたりのCO2排出量です。

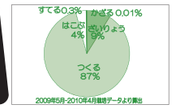
We have increased our heat pump utilization rate, switched the energy we use from heavy oil to electricity, and are trying to cut CO_2 emissions.

Process	① Acquisition of raw materials	② Production	③ Transport/sales	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	6%	74%	20%	0.003%	0.3%	961g

Company name	Syo Hana-en	
Product name	**Syo Hana-en Roses**	Final Product
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	TThe amount of per one stem of rose shipped by Syo Hana-en Calculated according to cultivation data from May 2009 to April 2010 (per rose)	



825g
CO_2
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号：CV-AW02-001

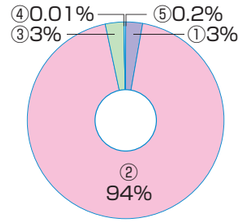


※表示の数字は
バラ1本あたりのCO2排出量です。

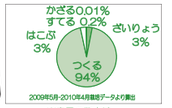
We have increased our heat pump utilization rate, switched the energy we use from heavy oil to electricity, and are trying to cut CO_2 emissions. The 825g per rose CO_2 emissions are the lowest of any rose under the current calculations.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	9%	87%	4%	0.01%	0.2%	825g

Company name	Abiko Engei	
Product name	**Abiko Engei Roses**	Final Product
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	The amount of per one stem of rose shipped by Abiko Engei Calculated according to cultivation data from May 2009 to April 2010 (per rose)	



1170g
CO_2
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号：CV-AW02-002

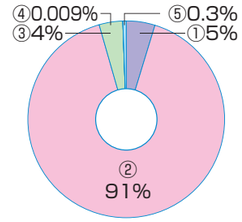


※表示の数字は
バラ1本あたりのCO2排出量です。

We have increased our heat pump utilization rate, switched the energy we use from heavy oil to electricity, and are trying to cut CO_2 emissions.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	3%	94%	3%	0.01%	0.2%	1.17kg

Company name	Kaji Noen	
Product name	**Kaji Noen Roses**	Final Product
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	The amount of per one stem of rose shipped by Kaji Noen Calculated according to cultivation data from May 2009 to April 2010	



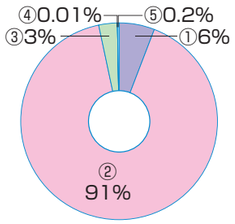
910g
CO_2
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号：CV-AW02-003

※表示の数字は
バラ1本あたりのCO2排出量です。

We have increased our heat pump utilization rate, switched the energy we use from heavy oil to electricity, and are trying to cut CO_2 emissions. As a producer in the tsunami-devastated city of Natori in Miyagi Prefecture, we have re-launched shipments and are working hard towards recovery.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	5%	91%	4%	0.009%	0.3%	910g

Company name	Plan	
Product name	**Hana Plan Roses**	**Final Product**
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	The amount of per one stem of rose shipped by Hana Plan Calculated according to cultivation data from May 2009 to April 2010	



1170g CO_2

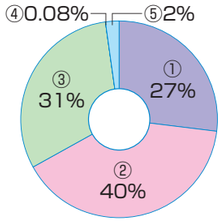
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号:CV-AW02-004

※表示の数字は
バラ1本あたりのCO2排出量です。

CO_2 emissions at the production stage are large, and while we need a great deal of heating as our farm is situated in the cold Hokuriku district we have used a heat pump and are trying to raise our electricity utilization rate.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	6%	91%	3%	0.01%	0.2%	1170g

Company name	JA Minabeinami	
Product name	**Statice, a flower from the JA Minabeinami MPS Growers' Association**	**Final Product**
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of statice	



103g CO_2

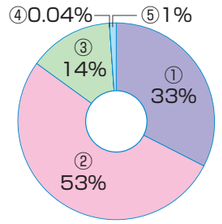
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号:CV-AW02-005

※表示の数字は
スターチス1本あたりのCO2排出量です。

The CO_2 emissions are based on data from the 23 members of the JA Minabeinami MPS Growers' Association, each of who is trying their best to reduce CO_2 emissions.

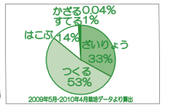
Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	27%	40%	31%	0.08%	2%	103g

Company name	JA Minabeinami	
Product name	**Gypsophila, a flower from the JA Minabeinami MPS Growers' Association**	**Final Product**
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of gysophila	



200g CO_2

カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号:CV-AW02-006

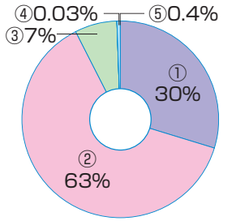


※表示の数字は
カスミソウ1本あたりのCO2排出量です。

The CO_2 emissions are based on data from the 23 members of the JA Minabeinami MPS Growers' Association, each of who is trying their best to reduce CO_2 emissions.

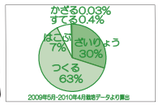
Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	33%	53%	14%	0.04%	1%	200g

Company name	JA Minabeinami	
Product name	**Carnations, a flower from the JA Minabeinami MPS Growers' Association**	**Final Product**
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of carnation	



273g CO_2

カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号:CV-AW02-007

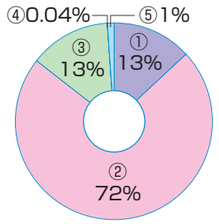


※表示の数字は
カーネーション1本あたりのCO2排出量です。

CO_2 emissions at the production stage are large, with emissions from heavy oil accounting for the greatest proportion. We are trying to cut CO_2 emissions by using electricity rather than just heavy oil.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	30%	63%	7%	0.03%	0.4%	273g

Company name	JA Minabeinami	
Product name	**Sweet Peas, a flower from the JA Minabeinami MPS Growers' Association**	**Final Product**
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of sweet pea	



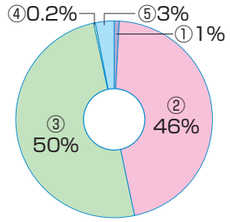
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AW02-008

※表示の数字はスイートピー1本あたりのCO2排出量です。

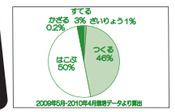
CO_2 emissions at the production stage are large, and the amount accounted for by the combustion of fuels is considerable. We are trying to reduce CO_2 emissions by using electricity, too.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	13%	72%	13%	0.04%	1%	190g

Company name	JA Minabeinami	
Product name	**Spray chrysanthemums, a flower from the JA Minabeinami MPS Growers' Association**	**Final Product**
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of spray chrysanthemums	



カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AW02-009

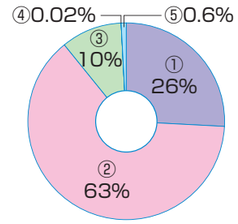


※表示の数字は小菊1本あたりのCO2排出量です。

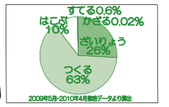
The amount of CO_2 emissions (46g per chamomile) is the lowest of any cut flower under the current calculations.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	1%	46%	50%	0.2%	3%	46g

Company name	JA Minabeinami	
Product name	**Snapdragons, a flower from the JA Minabeinami MPS Growers' Association**	**Final Product**
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of snapdragons	



カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AW02-010

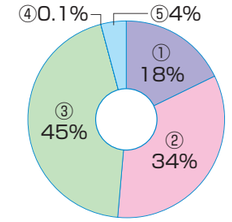


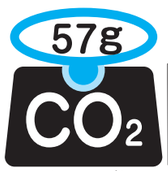
※表示の数字はキンギョソウ1本あたりのCO2排出量です。

We are trying to cut CO_2 emissions by using returnable buckets when we transport flowers.

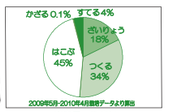
Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	26%	63%	10%	0.02%	0.6%	336g

Company name	JA Minabeinami	
Product name	**Stocks, a flower from the JA Minabeinami MPS Growers' Association**	**Final Product**
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of stock	





カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AW02-011

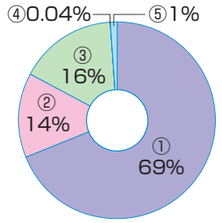


※表示の数字はストック1本あたりのCO2排出量です。

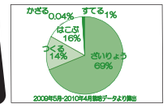
The amount of CO_2 emissions is the second lowest after 46g for chamomiles shipped by the Minabeinami MPS Growers' Association under the current calculations.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	18%	34%	45%	0.1%	4%	57g

Company name	JA Minabeinami	
Product name	**Scabious, a flower from the JA Minabeinami MPS Growers' Association**	Final Product
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of scabious	



187g
CO_2
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号:CV-AW02-014

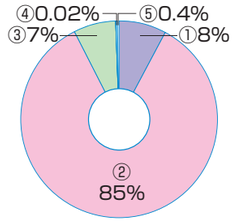


※表示の数字は
スカビオーサ1本あたりのCO2排出量です。

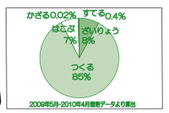
We are trying to cut CO_2 emissions by using returnable buckets when we transport flowers.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	69%	14%	16%	0.04%	1%	187g

Company name	JA Minabeinami	
Product name	**Sunflowers, a flower from the JA Minabeinami MPS Growers' Association**	Final Product
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of sunflower	



471g
CO_2
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号:CV-AW02-015

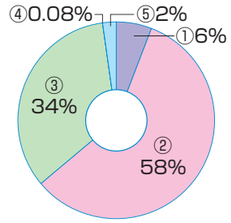


※表示の数字は
ヒマワリ1本あたりのCO2排出量です。

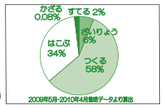
We are trying to cut CO_2 emissions by using returnable buckets when we transport flowers.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	8%	85%	7%	0.02%	0.4%	471g

Company name	JA Minabeinami	
Product name	**Chocolate Cosmos, a flower from the JA Minabeinami MPS Growers' Association**	Final Product
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of chocolate cosmos	



100g
CO_2
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号:CV-AW02-017

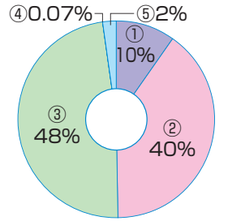


※表示の数字は
チョコレートコスモス1本あたりのCO2排出量です。

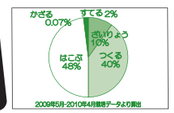
We are trying to cut CO_2 emissions by using returnable buckets when we transport flowers.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	6%	58%	34%	0.08%	2%	100g

Company name	JA Minabeinami	
Product name	**Dahlias, a flower from the JA Minabeinami MPS Growers' Association**	Final Product
PCR Name & ID	Flowers	**PA-AW-02**
Product Outline (Verified in FY2010)	Flowers shipped by the JA Minabeinami MPS Growers' Association Calculated according to cultivation data from May 2009 to April 2010 The amount of per one stem of dahlia	



118g
CO_2
カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号:CV-AW02-018



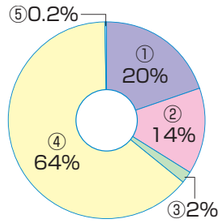
※表示の数字は
ダリア1本あたりのCO2排出量です。

We are trying to cut CO_2 emissions by using returnable buckets when we transport flowers.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	10%	40%	48%	0.07%	2%	118g

泉州タオル

Company name	Osaka Towel Industrial association / Yawaragi Co.,Ltd	
Product name	**SenshuTowel:Green Club Manufacturers Face Towel**	**Final Product**
PCR Name & ID	Towel Products	**PA-BL-03**
Product Outline (Verified in FY2011)	Raw materials: Cotton 100% size:34cm×85cm, weight: approx. 68.75g, Green Club processing (to remove natural and enzymatic starches) during post-bleaching treatment, sales unit (per single towel)	



1.59kg
CO_2

CO_2の「見える化」
カーボンフットプリント
http://www.cfp-japan.jp
検証番号：CV-BL03-001

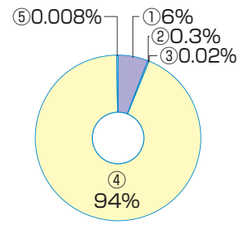
Washing at home:
number of times washed: 183 times
0.56kg-CO_2e per towel produced during acquisition of raw materials, production and transport stages

- As Japan's leading towel production region we aim to produce towels that are environmentally friendly, safe and secure.
- We are making stringent efforts to reduce the use of chemicals by, for example, switching from chemical to natural starches.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	20%	14%	2%	64%	0.2%	1.59kg

AEON

Company name	Aeon Co., Ltd.	
Product name	**TOPVALU Kyokan Sengen: LED light bulbs (neutral white)**	**Final Product**
PCR Name & ID	Lamps for General Lighting	**PA-AT-02**
Product Outline (Verified in FY2010)	Electricity consumption: 6.5W Rating life: 40,000 hours Product weight: 68g E26 screw base	



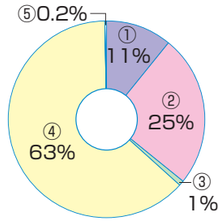
133g
CO_2

カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AT02-001

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	6%	0.3%	0.02%	94%	0.008%	133kg

KS

Company name	KURASHIKI TEXTILE MANUFACTURING co., ltd.	
Product name	**Pro·touch KM179**	**Final Product**
PCR Name & ID	Towel Products (Dish Towel)	**PA-BL-03**
Product Outline (Verified in FY2011)	Product size: approx. 34cm×90cm, weight: approx. 51.6g per Dish Towel (cotton 100%), commercial-use Dish Towel using dyed and bleached yarn (50-Dish Towel set weighs approx. 2.58kg), calculation unit is sales unit of 50 Dish Towel	



1.98kg
CO_2

CO_2の「見える化」
カーボンフットプリント
ふきん 1 枚あたり
http://www.cfp-japan.jp
検証番号： CV-BL03-003

Supposed number of times washed: commercially washed 50 times, using a household dryer

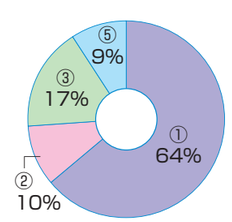
Objective of involvement in CFP:

In order to research the life cycle of daily used Dish Towel through the CFP, and ascertain CO_2 emissions.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	11%	25%	1%	63%	0.2%	99.0kg

TOSO

Company name	TOSO COMPANY, LIMITED	
Product name	**Curtain Rail E202**	**Final Product**
PCR Name & ID	Curtain Rails	**PA-BT-01**
Product Outline (Verified in FY2010)	• A set of two rails (double) and components enabling a twin layer of curtains to be hung • Fits two meter (per window space) retractable curtains (per window space) • Each set weighs 831g	



3.42kg
CO_2

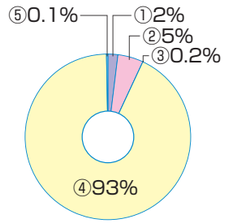
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-BT01-001

- E202 curtain rails use the C-shape surface shape that minimizes waste of raw materials, and balances performance with environmental consideration.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	64%	10%	17%	0%	9%	3.42kg

Sanshin

Company name	SANSHIN KAKO CO.,LTD.	
Product name	**Polypropylene tray**	**Final Product**
PCR Name & ID	Tableware (Ceramic and synthetic resin products)	**PA-AQ-01**
Product Outline (Verified in FY2009)	School meal tableware (polypropylene resin tray) Size: 352mm × 268mm × 18mm Weight: 240g Per tray, including wrapping	



30.5kg
CO_2

カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AQ-001

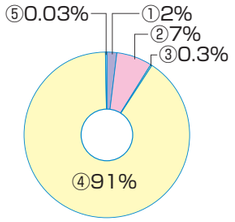
Type of use: Commercial tray
Material: Polypropylene
Supposed number of times used: 1,000 times
CO_2 emissions per use: 0.030kg (including washing)

- The CO_2 emissions appear large as they are used time and time again. (30.5kg per 1,000 times used)
- While these amounts appear large, the CO_2 emissions for a single use are only 0.03kg.
- Around 90% of the emissions are accounted for by washing and drying.

Process	① Acquisition of raw materials	② Production	③ Transport/sales	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	2%	5%	0.2%	93%	0.1%	30.5kg

Sanshin

Company name	SANSHIN KAKO CO.,LTD.	
Product name	**Rice bowl; YBH-771 (Alumina ceramic tableware containing recycled material more than 15%)**	**Final Product**
PCR Name & ID	Tableware (Ceramic and synthetic resin products)	**PA-AQ-02**
Product Outline (Verified in FY2011)	School meal tableware (high-strength porcelain rice bowl) Size: ϕ132mm×54mm, weight: 171g, capacity: 370ml Per bowl including wrapping	



自社比
−0.155%
CO_2

CO_2の「見える化」
カーボンフットプリント
http://www.cfp-japan.jp
検証番号：CV-AQ02-044

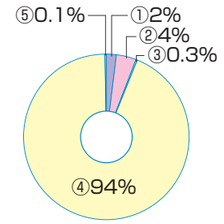
Type of use: Commercial tableware
Material: High-strength porcelain (using 15% or more recycled material)
Waste products are assumed to be recycled after collection
Supposed number of times used: 1,000 times
CO_2 emissions when the bowl is used 1,000 times: 13.5kg (including washing, etc.)
CO_2 emissions when the bowl is used once: 13.5g (including washing, etc.)
CO_2 reduction rate in comparison to our product in-glazing method (verification number: CV-AQ02-028) verified in 2011: 0.155%

- By recycling over 15% of our collected ceramics CO_2 emissions have been cut by 0.155% more than ordinary products.
- The CO_2 emissions appear large as they are used time and time again, but the CO_2 emissions for a single use are only 13.5g. Around 90% of the emissions are accounted for by washing and drying.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	2%	7%	0.3%	91%	0.03%	13.5kg

Sanshin

Company name	SANSHIN KAKO CO.,LTD.	
Product name	**Rice bowl; YBH-771 (Alumina ceramic tableware with underglaze decorating)**	**Final Product**
PCR Name & ID	Tableware (Ceramic and synthetic resin products)	**PA-AQ-02**
Product Outline (Verified in FY2011)	School meal tableware (high-strength porcelain rice bowl) Size: ϕ132mm×54mm, weight: 171g, capacity: 370ml	



自社比
−2.74%
CO_2

CO_2の「見える化」
カーボンフットプリント
http://www.cfp-japan.jp
検証番号：CV-AQ02-045

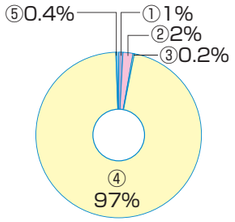
Type of use: Commercial tableware
Material: High-strength porcelain
Supposed number of times used: 1,000 times
CO_2 emissions when the bowl is used 1,000 times: 13.1kg (including washing, etc.)
CO_2 emissions when the bowl is used once: 13.1g (including washing, etc.)
CO_2 reduction rate in comparison to our product in-glazing method (verification number: CV-AQ02-028) verified in 2011: 2.74%
CO_2 reduction rate from the raw materials acquisition stage to the production stage: 31.8% (reduced by cutting the number of times the bowls are fired during production stage).

- By using a decorating method in which one less high-temperature firing is conducted, CO_2 emissions have decreased, and an overall reduction of 2.74% made.
- The CO_2 emissions appear large as the bowls are used time and time again, but the CO_2 emissions for a single use are only 13.1g. Around 90% of the emissions are accounted for by washing and drying.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	2%	4%	0.3%	94%	0.1%	13.1kg

朝日化工株式会社

Company name	Asahi-Kako Co., Ltd.	
Product name	**Kids' Mate ® recycled PET tray RPTA-3527**	**Final Product**
PCR Name & ID	Tableware (Ceramic and synthetic resin products)	**PA-AQ-02**
Product Outline (Verified in FY2010)	School meals tray (rectangular tray with grips) Size: 0.347m×0.267m×H0.0165m, weight: 0.289kg	



26.5g
CO_2

カーボンフットプリント
試行事業
1 回使用あたり
http://www.cfp-japan.jp
検証番号：CV-AQ02-010

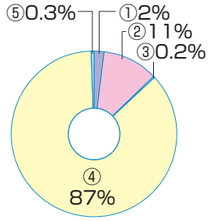
Type of use: Commercial tableware
Material: PET resin (using 75% or more recycled material)
Supposed number of times used: 1,000 times (including washing related processes)
CO_2 emissions when the bowl is used 1,000 times: 26.5kg
It is supposed that waste products will be recycled after collection.

- Using 75% or more recycled PET resin we have succeeded in creating a durable tray that does not require any glass fibre reinforcing.
- Since the trays do not contain any glass fibers they can be safely pulverized after collection, and recycled for other uses.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	1%	2%	0.2%	97%	0.4%	26.5kg

朝日化工株式会社

Company name	Asahi-Kako Co., Ltd.	
Product name	**Kids' Mate ® recycled high-strength porcelain tableware (13.2cm colander)**	**Final Product**
PCR Name & ID	Tableware (Ceramic and synthetic resin products)	**PA-AQ-02**
Product Outline (Verified in FY2010)	School meal tableware (high-strength porcelain bowl) Size: 13.2cm x 5.4cm, weight: 0.155kg	



14.1g CO_2

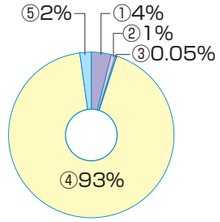
カーボンフットプリント
試行事業
1 回使用あたり
http://www.cfp-japan.jp
検証番号：CV-AQ02-011

Type of use:
Commercial tableware
Supposed number of times used: 1,000 times (including washing related processes)
CO_2 emissions when the bowl is used 1,000 times: 14.1kg
Material:
High-strength porcelain (using 16% or more recycled material)
It is supposed that waste products will be recycled after collection.

- In using 16% or more of the collected ceramics that have been ground up, we have succeeded in creating tough high-strength porcelain tableware.
- After collecting the used products, they are ground up and mixed into clay. Therefore, the high-strength porcelain tableware can be recycled repeatedly.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	2%	11%	0.2%	87%	0.3%	14.1kg

Company name	Kokusai-Kako Co., Ltd.	
Product name	**J13 13cm bowl**	**Final Product**
PCR Name & ID	Tableware (Ceramic and synthetic resin products)	**PA-AQ-02**
Product Outline (Verified in FY2010)	Product weight: 83g (not including wrapping) Size: ϕ13cm x H 5.5cm School meal melamine bowl (foil finish)	



マルケイ

13.2g CO_2

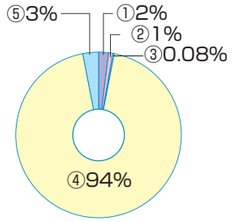
カーボンフットプリント
試行事業
1 回使用あたり
http://www.cfp-japan.jp
検証番号：CV-AQ02-013

Type of use:
Commercial tableware (Bowl: foil finish)
Material: Melamine resin
Supposed number of times used: 1,000 times
CO_2 emissions when the bowl is used 1,000 times: 13.2kg (including washing and drying)

CO_2 emissions during the use stage are high because the trays are used time and time again, and energy-saving efforts during use are therefore vital.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	4%	1%	0.05%	93%	2%	13.2kg

Company name	Kokusai-Kako Co., Ltd.	
Product name	**NP55 34cm polypropylene plate**	**Final Product**
PCR Name & ID	Tableware (Ceramic and synthetic resin products)	**PA-AQ-02**
Product Outline (Verified in FY2010)	Product weight: 255g (not including wrapping) Size: L 34.2cm x W 26cm x H 1.8cm School meal polypropylene tray	



マルケイ

28.4g CO_2

カーボンフットプリント
試行事業
1 回使用あたり
http://www.cfp-japan.jp
検証番号：CV-AQ02-012

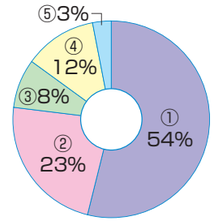
Type of use:
Commercial tableware (tray)
Material:
Polypropylene resin
Supposed number of times used: 1,000 times
CO_2 emissions when the bowl is used 1,000 times:28.4kg (including washing and drying)

CO_2 emissions during the use stage are high because the trays are used time and time again, and energy-saving efforts during use are therefore vital.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	2%	1%	0.08%	94%	3%	28.4kg

HATSUTA

Company name	HATSUTA SEISAKUSHO CO., LTD.	
Product name	**Stored-Pressure Dry Chemical Fire Extinguisher**	**Final Product**
PCR Name & ID	Fire Extinguisher	**PA-BA-02**
Product Outline (Verified in FY2010)	Stored-Pressure ABC Dry Chemical Fire Extinguisher PEP-10 Product weight per sales unit (per extinguisher): 5.25kg (including packaging materials)	



15.9kg CO_2

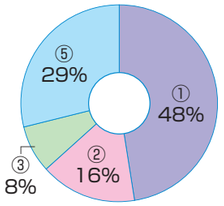
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-BA02−001

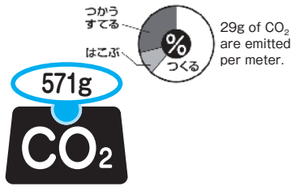
We use recycled materials in the raw materials for the fire-extinguishing agents.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	54%	23%	8%	12%	3%	15.9kg

CO-OP Japanese Consumers' Co-operative Union

Company name	Japanese Consumers' Co-operative Union	
Product name	**CO-OP microwavable wrap film**	**Final Product**
PCR Name & ID	Plastic Containers and Packaging	**PA-BC-02**
Product Outline (Verified in FY2010)	Raw material: polymethylpentene W30cm x L20m, heatproof temperature: 180℃ , cold resistant temperature: -30℃	





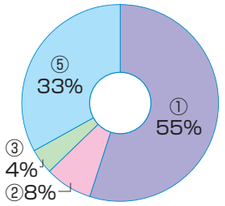
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-BC02-006

- Although the wrap film accounts for the bulk of emissions, a certain amount of them arise from the box and cardboard roll, and there is room for making further CO_2 emission cuts by improving the box and cardboard roll as well as the film.
- Per meter CO_2 emissions become lower the longer the wrap film is.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	48%	16%	8%	0%	29%	571g

Hitachi Chemical Filtec Inc.

Company name	Hitachi Chemical Filtec Inc.	
Product name	**Food Wrap for Consumer Use <Hitachi Wrap> 30cm×20m**	**Final Product**
PCR Name & ID	Plastic Containers and Packaging	**PA-BC-02**
Product Outline (Verified in FY2011)	Product name: Food wrap film Raw material: Polyvinyl chloride, weight: 64g (wrap film only)	



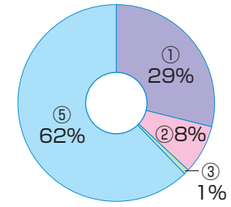
CO_2 emissions per roll: 345g

CO_2 の「見える化」
カーボンフットプリント
http://www.cfp-japan.jp
検証番号：CV-BC02-032

- Resin with low carbon content is used.
- CO_2 emissions have been cut with the use of materials that are thin but provide excellent performance.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (g-CO_2/product)
Percentage of CO_2 emissions	55%	8%	4%	0%	33%	345g

Company name	Nippon Film Co., Ltd.	
Product name	**Higashi Murayama City, Tokyo Designated collection garbage bags for domestic use (combustible garbage)**	**Final Product**
PCR Name & ID	Plastic Containers and Packaging	**PA-BC-02**
Product Outline (Verified in FY2010)	0.03mm×650mm×750mm (40L) 10 bag roll Weight: 272.15g (garbage bags weigh 269.4g and paper label wrapping weighs 2.75g)	



カーボンフットプリント
試行事業
http://www.cfp-japan.jp
検証番号：CV-BC02-019

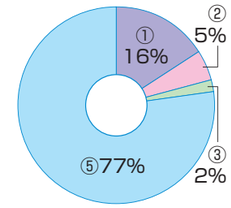
The CO_2 emissions for the life cycle of one garbage bag are 140g.

- Simply wrapped in a paper label, and recycled raw materials used.
- Automatic continuous production is employed to save energy from material input through to manufacturing.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	29%	8%	1%	0%	62%	1.40kg

株式会社 岩井化成

Company name	Iwaikasei Co., Ltd.	
Product name	**Garbage bag: Agri-Poly recycled product "Nokyo Dust bag"**	**Final Product**
PCR Name & ID	Plastic Containers and Packaging	**PA-BC-02**
Product Outline (Verified in FY2010)	45L size: 0.03mm×650mm×800mm 10 bag pack (10 bags weigh 287g and the wrapping 4.5g)	



カーボンフットプリント試行事業
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検証番号：CV-BC02−021

- This is a garbage bag that utilizes used agricultural polyethylene as a recycle material.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	16%	5%	2%	0%	77%	1.12kg

HI-CONE we are all around

Company name	ITW Hi-Cone Japan, Ltd.	
Product name	**Hi-Cone multi pack (intermediate goods)**	Intermediate Goods
PCR Name & ID	Plastic Containers and Packaging	**PA-BC-02**
Product Outline (Verified in FY2010)	Per sheet: 3.04g (Hi-Cone carrier weighs 2.95g and the label 0.09g), 273.6kg per pallet, 112mm x 224mm Polyethylene packaging material for multi packs of canned drinks (beers and soft drinks). Calculation unit: 1 pallet (90,000 sheets)	

① 54%
②
③
④
⑤ 46%

対象製品

CO_2: 19.6g
(Raw materials acquisition stage, and disposal and recycling stage)

カーボンフットプリント試行事業
キャリア 1 枚あたり
http://www.cfp-japan.jp
検証番号：CV-BC02−028

As a packaging material that provides the maximum effectiveness with the minimum of materials used, Hi-Cone multi packs are in wide use throughout the world, and the small size of the environmental burden they generate has now been proved under Japan's carbon footprint system.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (t-CO_2/product)
Percentage of CO_2 emissions	54%	—	—	—	46%	1.76t

DNP

Company name	Dai Nippon Printing Co., Ltd.	
Product name	**Beaubelcup Air**	Intermediate Goods
PCR Name & ID	Plastic Containers and Packaging	**PA-BC-02**
Product Outline (Verified in FY2011)	• Plastic cup for drinks (not including lid or accessories) • Weight per cup: 9.84g • Calculated and shown using an 816-piece case of the cups	

① 73%
②
③
④
⑤ 27%

CO_2: 60.3kg (per single case)
(Raw materials acquisition stage, and disposal and recycling stage)

CO_2 の「見える化」
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検証番号：CV-BC02-029

- We have achieved the lightest 71mm diameter, 250cc cups in the industry at a weight of 9.8g.
- We have reduced the use of plastics by 45% compared to conventional products.
- CFP (GHG emissions) is down by 33%.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	73%	—	—	—	27%	60.3kg

大倉工業株式会社

Company name	Okura Industrial Co., Ltd.	
Product name	**GPE Micron Roll**	Intermediate Goods
PCR Name & ID	Plastic Containers and Packaging	**PA-BC-02**
Product Outline (Verified in FY2010)	Thin high-density polyethylene bags in rolls with perforated tear-off lines, which uses plant-derived polyethylene as its main (60%) raw material.	

① 75%
②
③
④
⑤ 25%

CO_2: 7.31kg
(Raw materials acquisition stage, and disposal and recycling stage)

カーボンフットプリント試行事業
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検証番号：CV-BC02-022

The product' s main (60%) raw material is plant-derived polyethylene.
It emits 22.3% (2.10kg) less CO2 than our 100% petroleum-based resin products.

Carbon neutral

- By using a biomass material (plant-derived polyethylene) it reduces CO_2 emissions during the disposal stage.

Sustainability

- Using a biomass material we save fossil fuels.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	75%	—	—	—	25%	7.31kg

KODAMA

Company name	KODAMA PLASTICS Co., Ltd.	
Product name	**Pure bottle 4L KX-532**	Intermediate Goods
PCR Name & ID	Plastic Containers and Packaging	**PA-BC-02**
Product Outline (Verified in FY2010)	Specifications Size: ϕ168 x H312mm, weight: 317g, capacity 4L, rounded shape	

① 71%
②
③
④
⑤ 29%

CO_2: 2.19kg
(Raw materials acquisition stage, and disposal and recycling stage)

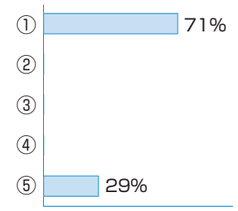
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-BC02-030

- By making CO_2 emissions "visible" we have ascertained the high points of reduction efficiency.
- We enthusiastically participate in activities to reduce the environmental burden, and take part in CFP in order to gain the trust of all our customers.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	71%	—	—	—	29%	2.19kg

中央化学株式会社

Company name	Chuo Kagaku Co., Ltd.	
Product name	**Miyama20-12 (Tray for food packaging)**	Intermediate Goods
PCR Name & ID	Plastic Containers and Packaging	**PA-BC-02**
Product Outline (Verified in FY2011)	Main raw materials: PSP sheets (polystyrene paper)/color: white/product size: 124mm x 198/product weight (per tray); 4.43g/CFP calculation unit: one case containing 1,200 trays (24 bags with 50 trays in them)/ case size: L90cm x W50cm x H60cm/case weight: 7.15kg (including packaging materials)	



CO_2: 41.2kg
Raw materials acquisition stage
(acquisition of raw materials for containers and packaging, production, transport)
and disposal/recycling stage
(disposal and recycling of containers and packaging)

CO_2 の「見える化」
カーボンフットプリント
http://www.cfp-japan.jp
検証番号：CV-BC02-031

▶We are trying to make a mechanism to make our CO_2 emissions visible and swiftly respond to customer needs through the businesses that use our products.

Process	① Acquisition of raw materials	② Production	③ Transport	④ Use/maintenance	⑤ Disposal/recycle	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	71%	—	—	—	29%	41.2kg

3. Clothing-related Products

PCR Name	PCR ID
●Uniform	**PA-AO**
●Powder Detergent	**PA-AC**

N.B. The PCR codes shown do not include the edition numbers.

Note
- ●Out of the products which were given verification of their carbon footprints of products (CFP), those representative from each category (use) have been selected and introduced, focusing on products that were displayed in the 2011 Eco-Products exhibition. Regarding all the products, please refer to the list of products authorized to use the CFP label, at the back.
- ●The calculation coverage for carbon footprints has partly changed in FY2010 from that of FY2009. The Sales Process in the Transport/Sale Stage in FY2009 was eliminated in FY2010 as a tentative measure during the pilot project period.
- ●With regard to the lower section "Percentage of CO_2 emissions" for each product, an entry of "0%" in that section for a final product indicates that no CO_2 is emitted during the said process of that product. An entry of "-" for intermediate goods indicates that the said process is not included in the calculation coverage.