5. Office-related Products

PCR Name	PCR ID
●Writing Instruments	PA-AS
●Paper Products for stationery	PA-AZ
●File/Binder	PA-AR
●Office Furniture	PA-AK
●Broadly-applicable PCR(Energy-using Consumer Goods)	PA-BQ
●IT Equipments	PA-CI
●Teleconference Systems using Interactive White Board	PA-BI
●ICT Hosting Service of Cloud Service Provider	PA-AX
●Application Service	PA-CT

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

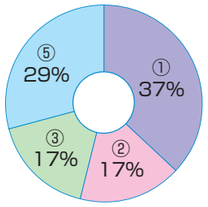
Note

- 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.

5. Office-related Products

Shachihata

Company name	Shachihata Inc	
Product name	**Permanent Marker "Kawakimapen"**	Final Product
PCR Name & ID	Writing Instruments	**PA-AS-02**
Product Outline (Verified in FY2010)	Ink (oil based dyestuff ink), body (recycled PP), cap (recycled PP), end plug (recycled PP), holder (PP), packing (polyethylene resin), pen nib (polyester fiber), filter (polyester fiber) Product weight: 20g	



153g CO_2

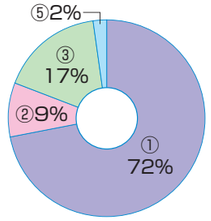
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AS02-001

- Recycled materials are used.
- The pens can be reused with ink refills and by changing the pen nib.

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	37%	17%	17%	0%	29%	153g

maruman

Company name	Maruman Corporation	
Product name	**ecospiral notebook (B5size)**	Final Product
PCR Name & ID	Paper Products for stationery	**PA-AZ-03**
Product Outline (Verified in FY2011)	L257mm x W182mm Weight: 130g (calculated with one notebook) Number of sheets: 30sheets	



CO_2

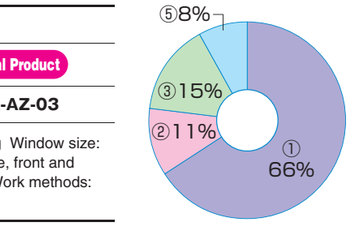
CO_2 の「見える化」
カーボンフットプリント
http://www.cfp-japan.jp
検証番号：CV-AZ03-001

- These notebooks are made at our Miyazaki plant which utilizes photovoltaic power generation.

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	72%	9%	17%	0%	2%	287g

IMURA ENVELOPE CO.,INC.

Company name	IMURA ENVELOPE CO., INC.	
Product name	**Pocket Envelopes with Window Envelopes, 120×235 mm, 5000 Count**	Final Product
PCR Name & ID	Paper Products for stationery	**PA-AZ-03**
Product Outline (Verified in FY2011)	Size: 120mm×235mm Thickness of paper: 81.4g/m² Product weight: 5.33g Window size: 45mm×90mm Window material: OPS film 25 microns Print: outside surface, front and back one colour Flap glue: Adhere glue Number in lot: 5,000 envelopes Work methods: manufacture of envelopes from flat paper, printing front and back	



25.0g 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-AZ03-006

The carbon footprint value of these envelopes is that of one envelope when manufactured in lots of 5000.

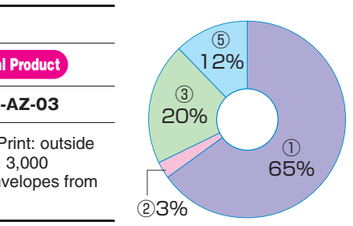
These envelopes have the following special features:

- Easy-to-use pastel colours
- As the material used makes it difficult to see what is inside the envelope, printing on the inside of the envelope is not necessary. (Lowers the load on the environment at the printing stage.)
- The material used for the windows is 50% recycled

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	66%	11%	15%	0%	8%	25.0g

IMURA ENVELOPE CO.,INC.

Company name	IMURA ENVELOPE CO., INC.	
Product name	**Green Tea Leaf Envelopes, 240×332mm, 3000 Count**	Final Product
PCR Name & ID	Paper Products for stationery	**PA-AZ-03**
Product Outline (Verified in FY2011)	Size: 240mm×332mm Thickness of paper: 68g/m2 Window: none Print: outside surface, front and back one colour Flap glue: no glue Number in lot: 3,000 envelopes Product weight: 12.1g Work methods: manufacture of envelopes from roll paper, printing front and back	



43.7g 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-AZ03-020

The carbon footprint value of these envelopes is that of one envelope when manufactured in lots of 3000.

These envelopes have the following special features:

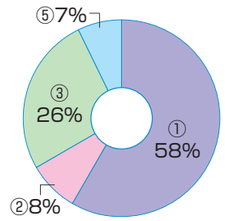
- One hundred envelopes contain used tea leaves equivalent to approximately 50 PET bottles of 500ml size.
- Due to the effect of the specks of used tea leaves, the inside of the envelopes cannot be easily seen, and printing on the inside of the envelope is not necessary. (Lowers the load on the environment at the printing stage.)
- Paper used in these envelopes is 20% thinner than that used in ordinary envelopes of the same size.

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	65%	3%	20%	0%	12%	43.7g

5. Office-related Products

KOKUYO

Company name	Kokuyo S&T Co., Ltd.	
Product name	**Tube File [ECOTWIN-R] (using wood from forest-thinning)**	**Final Product**
PCR Name & ID	File/Binder	**PA-AR-01**
Product Outline (Verified in FY2009)	A4 vertical, file thickness 50mm, 2 holes, color - blue	



2,030g 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-AR-027

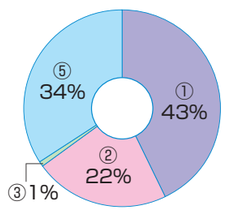
N.B. The actual products on sale do not show the CFP mark.

- The cover uses wood from forest-thinning in its core.
- The file clip can easily be separated from the cover.

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	58%	8%	26%	0%	7%	2,030g

清水印刷紙工株式會社

Company name	SHIMIZU PRINTING INC.	
Product name	**Eco products for 2010, clear file holder manufactured from polypropylene (PP)**	**Final Product**
PCR Name & ID	File/Binder	**PA-AR-02**
Product Outline (Verified in FY2010)	Clear file holder for documents printed on PP using 4 colors (210mm×310mm, 27.1g/holder)	



223g CO_2

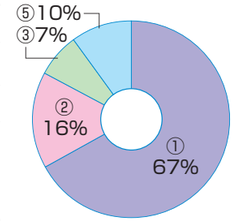
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AR02-001

Rather than calculating the CO_2 emissions alone, being able to use the results of sensitivity analyses of different materials and production methods served as a useful reference for the company.

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	43%	22%	1%	0%	34%	223g

KOKUYO

Company name	KOKUYO FURNITURE Co.,Ltd.	
Product name	**FLEXCEL**	**Final Product**
PCR Name & ID	Office Furniture	**PA-AK-01**
Product Outline (Verified in FY2009)	Size: W900mm×H1135mm Product weight: 18 kg	



N.B. The panel shown in the photo is the said product.

46kg CO_2

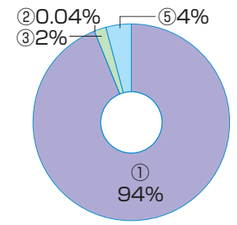
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AK-001

- Emissions from packaging materials are extremely low as a cutting back of packaging material is being enforced.
- There are no GHG emissions at the stages of usage and maintenance.

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	67%	16%	7%	0%	10%	46kg

KOKUYO

Company name	KOKUYO FURNITURE Co.,Ltd.	
Product name	**FLEXCEL**	**Final Product**
PCR Name & ID	Office Furniture	**PA-AK-01**
Product Outline (Verified in FY2009)	Size: H1135mm Product weight: 2kg	



N.B. Only the corner post shown in the photo is the said product.

23kg 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-AK-002

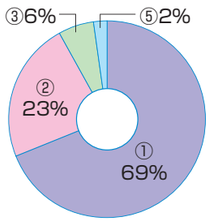
- Emissions from packaging materials are extremely low as a cutting back of packaging material is being enforced.
- There are no GHG emissions at the stages of usage and maintenance.

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	94%	0.04%	2%	0%	4%	23kg

5. Office-related Products

KOKUYO

Company name	KOKUYO FURNITURE Co.,Ltd.	
Product name	**Storage system EDIA BWU-K69SAW / BWU-K69F1**	Final Product
PCR Name & ID	Office Furniture	**PA-AK-03**
Product Outline (Verified in FY2011)	Size: W900mm×D450mm×H1185mm (excluding the base) Product weight: 36kg (excluding the base/including packaging materials)	



122kg
CO_2

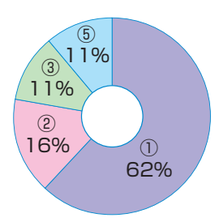
CO_2 の「見える化」
カーボンフットプリント
http://www.cfp-japan.jp
検証番号：CV-AK03-001

- More than 95% of the product is made from steel.
- There are no GHG emissions at the stages of usage and maintenance.

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	69%	23%	6%	0%	2%	122kg

オカムラ
株式会社 岡村製作所

Company name	Okamura Corporation	
Product name	**Scholar light desk (Size No. 5)**	Final Product
PCR Name & ID	Office Furniture	**PA-AK-01**
Product Outline (Verified in FY2009)	By reducing the weight of the No. 5 desk by 20% (in-house comparison) of conventional desks down to 8.2kg, the lightest class in the industry has been actualized. Handles have been attached just under the top of the desk, making it easy for children to move the desks around. By opening a hole in the bottom of the underneath section and putting grooves on both sides of the mouth of the desk, it has become easier to clean.	



23.6kg
CO_2

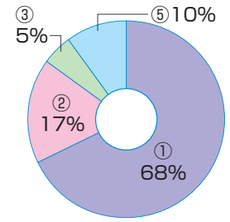
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AK-004

- As transport etc., at the raw material acquisition stage accounts for most of the CO_2 emissions, a review was carried out of the structure and materials used, to reduce the weight.
- Improvements were made for storage efficiency in the production process by making the shelves stackable.

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	62%	16%	11%	0%	11%	23.6kg

オカムラ
株式会社 岡村製作所

Company name	Okamura Corporation	
Product name	**Scholar light chair (Size No. 5)**	Final Product
PCR Name & ID	Office Furniture	**PA-AK-01**
Product Outline (Verified in FY2009)	By reducing the weight of the No. 5 chair by 30% (in-house comparison) of conventional chairs, down to 3.2kg, the lightest class in the industry has been actualized. The hole in the chair's back is very handy when carrying the chair around. Having the back legs slanting backwards to a large degree makes it difficult for the chair to fall backwards, thus making it safer to use.	



13.2kg
CO_2

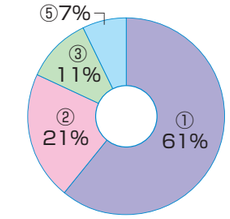
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AK-005

- As transport etc., at the raw material acquisition stage accounts for most of the CO_2 emissions, a review was carried out of the structure and materials used, to reduce the weight.
- Improvements were made for storage efficiency in the production process by making the frames stackable.

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	68%	17%	5%	0%	10%	13.2kg

ITOKI

Company name	ITOKI CORPORATION	
Product name	**CZ desk CZN-127HA-W7W7**	Final Product
PCR Name & ID	Office Furniture	**PA-AK-02**
Product Outline (Verified in FY2010)	Plain desk W1200mm Weight: 28.1 kg (Includes complete set of attachments and packaging)	



96kg
CO_2

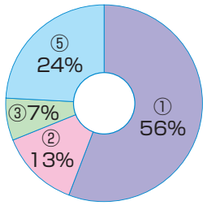
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AK02-001

- Recycled materials are used in the raw materials.
- Easy-to-dissemble design
- Iron, the major material of the desk, is recycled. Therefore,the amount of CO_2 emission on disposal/recycle process is comparatively low.

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	61%	21%	11%	0%	7%	95.8kg

ITOKI

Company name	ITOKI CORPORATION	
Product name	**Epios chair**	Final Product
PCR Name & ID	Office Furniture	**PA-AK-02**
Product Outline (Verified in FY2010)	High back chair with adjustable arm Weight: 18.9 kg (Includes complete set of attachments and packaging)	



99kg CO_2

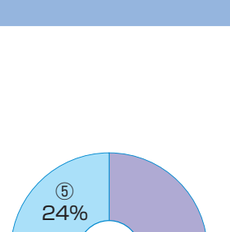
カーボンフットプリント試行事業
http://www.cfp-japan.jp
検証番号：CV-AK02-003

- 60% of total resin materials are recycled.
- The number of parts has been reduced and only three screws are used in assemblage. Therefore, it is easy to recycle.

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	56%	13%	7%	0%	24%	98.5kg

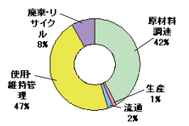
RICOH

Company name	RICOH COMPANY, LTD.	
Product name	**Multifunction Color copier system imagio**	Final Product
PCR Name & ID	Broadly-applicable PCR (Energy-using Consumer Goods)	**PA-BQ-01**
Product Outline (Verified in FY2011)	Equipped with copy, printer, facsimile, scanner, W-NET FAX and IP-FAX functions. Continuous printing speed (A4 horizontal): colour – 50 pages/minute; black-and-white – 50 pages/minute	



1620kg 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-BQ01-001



想定使用年数：5年
上記数値はオプション類を含まない、本体のみが対象です。なお、印刷枚数は標準的なシナリオにて算出しています。

- By using Ricoh's unique IH roller fusing system and low melting point toners, compared to its predecessor (imagio MP C4500 SPF), the amount of electricity used has been reduced by approximately 40% (TEC).

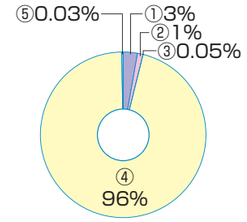
  N.B. This number is calculated using methods of measurements as prescribed by the International Energy Star Program.

The photo shows the imagio MP C5001 SPF with the imagio paper feed unit PB 3100 attached.

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	42%	1%	2%	47%	8%	1620kg

HITACHI
Inspire the Next

Company name	Hitachi, Ltd.	
Product name	**AX2530S-24T (Compact Gigabit Layer 2 Switches)**	Final Product
PCR Name & ID	IT Equipments	**PA-CI-01**
Product Outline (Verified in FY2011)	A gigabit L2 ethernet switch in a compact body, aiming for even higher performance and reliability. • Maximum throughput: 28gbit/s • Supposed number of years used: 10 • PoE functions: none • Line speed and number of ports: 1Gbit/s×28 • Management functions: SNMP function • IP filtering function: yes	



5.32kg CO_2

CO_2の「見える化」
カーボンフットプリント
1Gbit/s・1年あたり
[Gbit/s 年]
http://www. cfp-japan. jp
検証番号：CV-CI01-002

AX2530S-24Tを、従来機種AX2430S-24Tと比較すると以下の表になります。

		対象製品	従来機種
製品名		AX2530S-24T	AX2430S-24T
型式		AX-2530-24T-B	AX-2430-24TE-B
CO_2排出量	製品あたり	1.49 t-CO_2	2.49 t-CO_2
	1Gbit/s・1年あたり※1	5.32 kg-CO_2/Gbit/s 年	10.4kg-CO_2/Gbit/s 年
主な製品仕様	最大スループット	28Gbit/s	24Gbit/s
	想定使用年数※2	10年	10年
	回線速度とポート数	1Gbit/s×28	1Gbit/s×24
	管理機能の有無	SNMP機能	SNMP機能
	IPフィルタリング機能の有無	IPフィルタリング機能あり	IPフィルタリング機能あり
	PoE機能の有無	PoE機能なし	PoE機能なし
測定条件		使用時電力、最大スループットは、省エネ法(2011年度規定)に基づき測定	

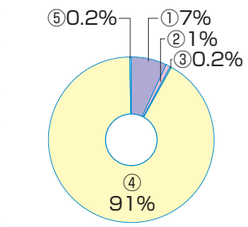
対象製品の特徴（2008年11月発売の従来機種<検証番号：CV-CI01-001>と比較）
・性能向上、収容条件の拡大 ・高性能ASIC(Application Specific Integrated Circuit)の開発により、処理能力あたりの消費電力を低減
※1：1Gbit/s・1年あたりのCO2排出量は、製品あたりのCO2排出量を最大スループット(Gbit/s)、および想定使用年数(年)で割って算出しております。
※2：想定使用年数は、「主要熱帯発電/電話設備その他の通信機器 その他のもの 10年」として計算しております。
※3：省エネ法で定められるスイッチの区分設定の項目に対応します。

- Due to the development of the high performance ASIC (Application Specific Integrated Circuit), the amount of electricity used for processing capacities is reduced.

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%	1%	0.05%	96%	0.03%	1490kg

HITACHI
Inspire the Next

Company name	Hitachi, Ltd.	
Product name	**HITACHI Advanced Server HA8000/RS110xL**	Final Product
PCR Name & ID	IT Equipments	**PA-CI-01**
Product Outline (Verified in FY2011)	• Composite theoretical performance: 140GTOPS • Supposed number of years used: 5 • Number of I/O slots: 2 • Number of CPU sockets: 1 • Name of CPU: Intel® Xeon® Processor E3-1280	



2.06kg CO_2

CO_2の「見える化」
カーボンフットプリント
1GTOPS・1年あたり
[GTOPS 年]
http://www. cfp-japan. jp
検証番号：CV-CI01-004

日立アドバンストサーバ HA8000/RS110xLを、従来機種HA8000/RS110xJと比較すると以下の表になります。

		対象製品	従来機種
製品名		日立アドバンストサーバ HA8000	日立アドバンストサーバ HA8000
モデル名		HA8000/RS110xL	HA8000/RS110xJ
CO_2排出量	製品あたり	1.44 t-CO_2	1.44 t-CO_2
	1GTOPS・1年あたり※1	2.06 kg-CO_2 /GTOPS 年	3.24 kg-CO_2 /GTOPS 年
主な製品仕様	複合理論性能(CTP)	140 GTOPS	89 GTOPS
	想定使用年数※2	5年	5年
	I/Oスロット数※3	2スロット	2スロット
	CPUソケット数※3	1	1
	CPU	インテル® Xeon® E3-1280	インテル® Xeon® X3470
測定条件		使用時の電力は、省エネ法(2011年度規定)で定める特定の測定方法(条件、機能により測定しております。	

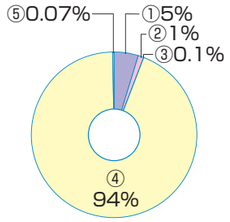
対象製品の特徴（2010年1月発売の従来機種<検証番号：CV-CI01-002>と比較）
・インテル® 最新プロセッサー インテル® Xeon® プロセッサー E3-1200番台 を採用し、処理性能を向上しました。
・高効率電源の採用 変換効率を向上させることで電力損失を低減し、より効率よく電力を使用することで、エネルギー消費を抑えています。
※1：1GTOPS・1年あたりのCO2排出量は、製品あたりのCO2排出量を年当たり理論性能(GTOPS)、および想定使用年数(年)で割った数値となります。 ※2：想定使用年数は、法定耐用年数（電子計算機 その他のもの 5年）として計算しております。
※3：省エネ法で定められるサーバ/記憶装置の区分設定の項目に対応します。

- Use of highly-efficient power supply. By improving the conversion efficiency, the amount of power loss is reduced and by using electricity efficiently, energy consumption can be kept low.

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	7%	1%	0.2%	91%	0.2%	2.06kg

HITACHI
Inspire the Next

Company name	Hitachi, Ltd.	
Product name	**Hitachi Adaptable Modular Storage 2500**	Final Product
PCR Name & ID	IT Equipments	**PA-CI-01**
Product Outline (Verified in FY2011)	• Storage capacity: 442.6TB • Supposed number of years used: 5 • Applications: For others • Disc speed: 7.2krpm • Disc size; units: 3.5 inch, 480 units	



自社比※
−51.8%
CO_2
従来機種（発売時期 2006 年 4 月）
と比較
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-CI01-008

従来機種<Hitachi Adaptable Modular Storage 1000：検証番号CV-CI01-007 >と比較した際の、1TB・1年あたりのCO_2排出量の削減率をCFPマークに記載

	対象製品	従来機種
製品名	Hitachi Adaptable Modular Storage 2500	Hitachi Adaptable Modular Storage 1000
型式	HT-4065-RKEH/HT-F4065-RKAK	HT-4064-RKH/HT-4064-RKAJ
CO_2排出量 製品あたり	351t-CO_2	332t-CO_2
CO_2排出量 1TB・1年あたり	159kg-CO_2/T B 年	339kg-CO_2/TB 年
主な製品仕様 容量	442.6 TB	201.3 TB
主な製品仕様 想定使用年数	5年	5年
主な製品仕様 台数	480台のため	480台のため
主な製品仕様 ディスク回転数	7.2krpm	7.2krpm
主な製品仕様 ディスクサイズ/台数	3.5inch(SATA)/-480台	3.5inch/-420台
測定条件	使用時電力は、省エネ法(2011年度規定)で定める特定の測定方法（条件、機能）により測定しております。	

対象製品の特徴（従来機種比較）
・トランザクション性能の向上、拡張性の向上（HDD搭載数を最大480台まで搭載可能等）
・電力効率の高い1世代新筐体の採用

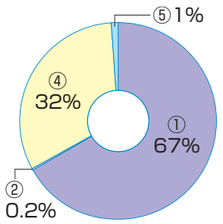
※1 1TB・1年あたりのCO_2排出量は、製品あたりのCO_2排出量を記憶容量[TB]、および想定使用年数[年]で除した数値となります。
※2 想定使用年数は、当社新規年数「電子計算機 その他のもの 5年」として計算しております。
※3 省エネ法で定める磁気ディスクサブシステムの冷却による製品区分に対応します。

aA highly-efficient storage medium is used.

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	5%	1%	0.1%	94%	0.07%	351t

日立ソリューションズ

Company name	Hitachi Solutions, Ltd.	
Product name	**The Interactive Whiteboard Teleconferencing System**	Final Product
PCR Name & ID	Teleconference Systems using Interactive White Board	**PA-BI-02**
Product Outline (Verified in FY2010)	StarBoard is an electronic whiteboard that displays computer screens upon which it is possible to manipulate PCs and, and it is also possible to write in both directions on multiple boards. When combined with TV videoconferencing systems, remote meetings can be held online sharing voices, images and meeting material.	



4,750kg
CO_2
想定使用年数：10 年
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-BI02-001

Note
The figure on the left, 4,750kg is the amount of GHG emitted during the entire life cycle of this product when meetings are carried out according to the following scenario.

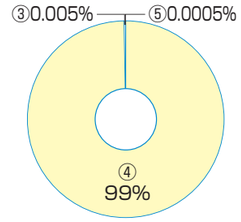
Scenario for this product Meetings are held between two locations of Hitachi Solutions, Ltd. in Tokyo and Osaka, with each meeting 1.15 hours long and held with six people 0.89 times per week (46.3 times, 53.2 hours/year). Detailed information for that system configuration is shown on the CRP system official website (http: /www.cfp-japan.jp/). 8.93kg of GHG will be emitted for one hour of meeting time. This figure (8.93kg) is the amount of GHG emitted using this product and carrying out meetings for one hour with this scenario, throughout the entire life cycle.

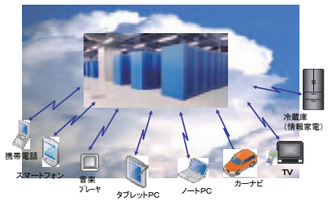
- In addition to lowering the burden of the raw materials, in order to lower the usage time burden, the usability of the software was improved and thus lowered the burden overall.

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	67%	0.2%	0%	32%	1%	4,750kg

UNISYS

Company name	Nihon Unisys, Ltd	
Product name	**U-Cloud® IaaS**	Final Product
PCR Name & ID	ICT Hosting Service of Cloud Service Provider	**PA-AX-02**
Product Outline (Verified in FY2010)	Server: corresponding to Intel Xeon 2GHz SingleCore + Memory 1GB (1024MB) Storage: 50GB Internal network, internet connection speed: 100Mbps best effort type shared lines + one global IP address	





3.42t
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-AX02-001

Period subject to calculation
November 1, 2010 – December 31, 2010

Server SPEC: 12.9SPECint2006rate
Storage capacity: 50GB
Network bandwidth: 100Mbps
One year' s amount of CO_2 emissions are calculated based on actual measurements taken for two months of iDC electricity consumption.

Amount of GHG emissions per server
SPEC: 18.8kg/SPEC
Amount of GHG emissions per storage
0.848kg/GB
Amount of GHG emissions per Network bandwidth: 30.8kg/Mbps

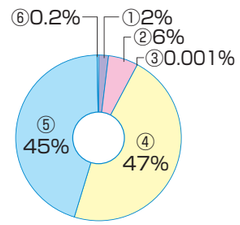
Initiative to improve energy efficiency in provision of services and maintenance

- Use of energy-saving ICT equipment
- Dynamic layout of supposed server
- High temperature setting of the facilities

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	0%	0%	0.005%	99%	0.0005%	3.42t

UNISYS

Company name	Nihon Unisys, Ltd	
Product name	**LearningCast®**	Final Product
PCR Name & ID	Application Service	**PA-CT-01**
Product Outline (Verified in FY2011)	Provision of services for SaaS type educational platforms for corporations Basic Plan 10 user ID	



80.5kg
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-CT01-001

Period of data collection
November 1, 2010 – August 31, 2011
The amount of CO_2 emissions for one year was calculated based on data for a period of ten months.

Usage scenario: Using Learning Cast for 4.5 hours per day, for 49 days in one year.

Calculation unit: 10 user IDs of Learning Cast for one year.

Subject of calculation: Includes CO_2 emissions related to the manufacture, usage and disposal of computers using the application.

- Use of ICT hosting services as a service provision base for operators
- As the value is high for consumers at the usage stage, the impact of consumer efforts is major.

Process	① Acquisition (operators)	② Provision and maintenance (operators)	③ Disposal/recycle (operators)	④ Acquisition (consumers)	⑤ Use (consumers)	⑥ Disposal/recycle (consumers)	Total amount (kg-CO_2/product)
Percentage of CO_2 emissions	2%	6%	0.001%	47%	45%	0.2%	80.5kg

6. Engineering- and Construction-related Products

PCR Name	PCR ID
●Roadbed material made from inorganic sludge	PA-AY
●Rubber Chip Products	PA-BZ
●Wood-plastic Composite	PA-CB
●Wood, Wood Materials	PA-CC
●Wood Products	PA-CD
●Insulation material for construction	PA-CK

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.