

Eco-Friendly Products

We are accelerating the development of Green Products and Super Green Products and are working to reduce environmental load throughout the product life cycle.

Green and Super Green Product Development

The Fujitsu Group has adopted a unified Group-wide approach to eco-design for newly designed products and strives to improve environmental performance throughout the product life cycle. We have been implementing our own environmental assessments for products since 1993, and we develop eco-friendly products that reflect environmental considerations in such areas as energy saving, 3R design,* non-use of hazardous chemical substances, packaging materials, and information disclosure.

In 1998, to further strengthen development of eco-friendly products, we established Green Product Evaluation Standards and positioned the products that satisfy them as Green Products.

Then, in fiscal 2004, we combined what had previously been two separate sets of regulations—for product environmental assessment and for Green Product evaluation—into a single set of standards with even higher levels of consideration for the environment. We called these Product Environmental Green Assessment Regulations, and they have helped to both strengthen our Green Product development efforts and make them more efficient.

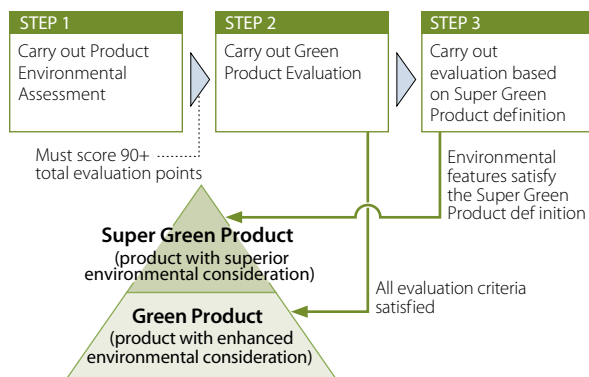
Furthermore, since fiscal 2004, we have been working on what we call “Super Green Product” development for newly developed products. Super Green Products are those that meet the required conditions for Green Products and are also top class in terms of low energy consumption and/or 3R design technology, non-use of hazardous substances, packaging materials and use of eco-friendly materials and technologies. Super Green Products are products or systems with superior environmental characteristics to others we supply or are available on the market.

In fiscal 2007, 32 product families were recognized as Super Green Products.

*** 3R design**

Design based on the principles of reduce, reuse and recycle

Mechanism for Green and Super Green Product Evaluation



Super Green Product Development Achievements (Fiscal 2007)

Fujitsu Limited (19 product families)

- Notebook PCs (5 product families):
FMV-BIBLO NX95W/D,
FMV-LIFEBOOK U8240, FMV-LIFEBOOK C8250
FMV-BIBLO MG Series (MG90Y/V, MG75Y)
FMV-LIFEBOOK S8350
- Desktop PCs (2 product families):
FMV-ESPRIMO K5250, FMV-ESPRIMO D5255
- Displays: ECO Plus Monitor VL-176SR
- PC Workstations: CELSIUS N460
- Ethernet edge system: FLASHWAVE 5740
- IP telephones: i-station-70 series
- Network servers:
IPCOM EX2000IN, redundant power supply type
- Storage, Disk arrays: ETERNUS 2000 M50/M100/M200
- Mobile phones: Raku-Raku PHONE BASIC (F883i/IV, F883iES)
- Hard disk drives (4 product families)
2.5-inch SATA drives (MHY2 BS Series, MHY2 BH Series)
2.5-inch SAS drives (MBC2 RC Series)
2.5-inch SAS drives (MBB2 RC Series)
3.5-inch SCSI/SAS drives (MBA3 Series)
- Wireless base station equipment:
W-CDMA high-density multi-band BTS equipment

Consolidated subsidiaries and affiliates (13 product families)

- Overhead reader: 3G-OHR (Fujitsu Frontech, Ltd.)
- Portable information terminal: FLEPIa (Fujitsu Frontech, Ltd.)
- Scanners (2 product families):
ScanSnap S300 (PFU Limited)
fi Series fi-6140 and fi-6240 (PFU Limited)
- High-density/low-power computer: RG1000 (PFU Limited)
- Electronic components (2 product families):
SMD Gyro Sensor (Fujitsu Media Devices, Ltd.)
Rx Module R03 Series (Fujitsu Media Devices, Ltd.)
- Thermal printers (2 product families):
FP-510 (Fujitsu Isotec, Ltd.)
FTP-6x7MCL601 (printer with low-profile cutter) (Fujitsu Component, Ltd.)
- Keyboards:
Switch Panel-less Keyboard (Fujitsu Component, Ltd.)
- Relays: JSL type relays (061RX) (Fujitsu Component, Ltd.)
- Touch panels:
0.55mm Glass Touch Panel (Fujitsu Component, Ltd.)
- ICs:
On-chip FRAM IC (IMB85RF402) for Digital TVs (Fujitsu Microelectronics, Ltd.)

Research and Development on Leading-Edge Environmental Technologies

Fujitsu and Fujitsu Laboratories, Ltd. carry out R&D on advanced environmental technologies to support the development of Green Products and Super Green Products. In addition to adopting bio-based plastics in notebook PCs for the first time in the industry, we have achieved a variety of successes, including, in September 2007, developing an efficient analysis

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procedure for determining the amount of lead included in the plating on chip components to strengthen our response to the RoHS directive.

Reducing Product Environmental Load by Using the Environmental Efficiency Factor

We carry out a Life Cycle Assessment (LCA*1) for all newly-developed products to determine the environmental load throughout the whole life cycle of the product.

In fiscal 2007, we introduced the eco-efficiency factor*2, which evaluates both increases in product value and reductions in its environmental load at the same time. We are working to not only indicate increases in environmental performance in an easy to understand manner, but also to use this evaluation in product development. This factor is calculated relative to fiscal 2005 products for newly-developed Green Products.

On average, the factor was 2.0 for the Fujitsu Group as a whole for products developed in fiscal 2007. Fujitsu will continue to work for improvements in environmental performance to maintain our eco-efficiency factor at a high level in future product development.

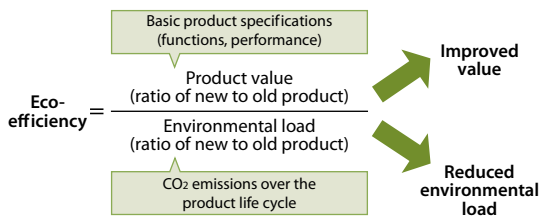
*1 LCA: Life Cycle Assessment

The LCA is calculated using a resource unit database created by Fujitsu Laboratories, Ltd. Based on input output tables.

*2 Eco-efficiency factor

A method for comparing old and new products that quantitatively grasps improvements in both product environmental load and value (functionality and performance). This is an environmental index that promotes the creations of products that can provide even higher values at even lower environmental load.

Eco-efficiency factor



Management of the Restricted chemical substances in products

In compliance with Japanese and international laws and regulations, we have specified Banned Substances and Control Substances in Products. And through our Green Procurement activities (see page 49) we are working to eliminate use of these specified substances. Fujitsu provides products that do not contain Fujitsu Group-specified Banned Substances.

At the same time as the thoroughgoing management of chemical substances in all processes from design to delivery as a response to the RoHS*1 Directive, we are also moving forward with our response to the European REACH regulation*2 in fiscal 2007. We regard the REACH obligation of information communication on the specific substances contained in products as an issue for the whole supply chain, we are participating in activities of industry associations such as JAMP*3

and JGPSSI*4, and we are studying the implementation of an efficient scheme.

We are also applying our company-internal know-how on this type of study to PLEMIA/ECODUCE, which is an Environmental Solution for the REACH Regulation support (see page 54).

*1 RoHS Directive

Restriction of the use of certain hazardous substances in electrical and electric equipment

*2 REACH Regulation

Regulation concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals.

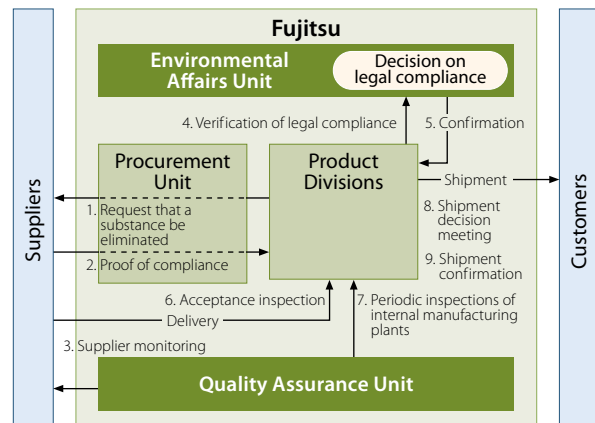
*3 JAMP

Japan Article Management Promotion Consortium

*4 JGPSSI

Japan Green Procurement Survey Standardization Initiative

Framework for RoHS Directive Compliance



* Group companies are also constructing frameworks based on the above figure.

Disclosure of Environmental Information on Products

We actively disclose environmental information on our products, both via the Internet and in the form of environmental labels.

We register notebook personal computers under the EPEAT*1 system, which encourages the purchase of green PCs and is used chiefly by US government bodies.

In Japan, environmental information on the products that are covered by green purchasing laws*2 are listed on the Ministry of the Environment's web site*3.

*1 EPEAT web site

<http://www.epeat.net/>

*2 Green purchase laws

Laws related to promoting the purchase of eco-friendly goods and products by the country or other parties.

*3 Ministry of the Environment web site

<http://www.env.go.jp/en/laws/policy/green/index.html>

Super Green Product Development Examples

Notebook PC
FMV-LIFEBOOK S8350



- Energy savings**
 Conforms to the new international Energy Star program standards
- Chemicals**
 LED backlight LCD adopted (mercury free)
- Eco-friendly materials**
 Bio-based plastics were adopted (VGA cover: castor oil, connector covers: polylactate)

Desktop PC
FMV ESPRIMO D5255



- Energy savings**
 Achieves an achievement ratio in excess of 500% relative to the target values in Japan's Energy Conservation Law. Conforms to the new international Energy Star program standards

Thermal printer FP-510



- 3R design technology**
 Product volume has been reduced by 25% compared to earlier products (the industry's top level of miniaturization).

Display
ECO Plus Monitor (VL-176SR)



- Energy savings**
 Uses an operator sensor that turns off the display when the user is away from the display. The normal power consumption of 32W is reduced to 3.2W when the user is away from the display (a power savings of about 90%).

2.5-inch SAS hard disk
(MBC2 RC Series)



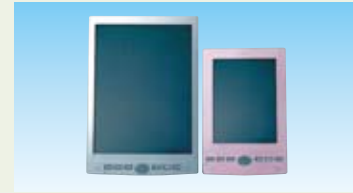
- Energy savings**
 These products achieve an achievement ratio in excess of 500% relative to the target values in Japan's Energy Conservation Law.

IP telephone i-station 70 Series



- Energy savings**
 Power consumption has been reduced by 28.9% compared to earlier products (at maximum load)

Portable information terminal
FLEPia



- Energy savings**
 Low-power product that uses color electronic paper as the display for the first time in the world (50 hours of operation, 3000 pages at 1 page/minute)
- 3R design technology**
 Weight is reduced compared to competitors' products by the inclusion of batteries, a WLAN circuit, and a touch panel.

Scanner ScanSnap S300



- 3R design technology**
 Ultra compact scanner achieves the industry's smallest size (unit volume) for an A4/ADF scanner.
- Energy savings**
 International Energy Star Program sleep mode power consumption of under 3.2 W (This is under 70% of the new scanner standard of 5 W, and the S300 achieves the same level in the ready state.)

Relay JSL type relay (061RX)



- Energy savings**
 Power consumption of under 480 mW during switching (the lowest in the 8A contact rating class)
- 3R design technology**
 Product height of 12 mm for space savings (the lowest profile in the 8A contact rating class)

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