

Life Cycle Story of a Notebook PC

Assessing products' relationship with the environment.

What is the relationship in the case of a familiar notebook PC?

This example employs a notebook PC to illustrate our concrete efforts to consider the environment throughout the product life cycle.

The IN/OUT numeric environmental burden values introduced here are all described on the EcoLeaf environmental label received by Fujitsu.

Example: Model FMV-7140MG5 notebook PC, launched spring 2004

IN		OUT	
Energy	1,160 MJ	CO ₂	87 kg
Mineral resources	5 kg	SO _x	0.1 kg
Water	9,590 kg	NO _x	0.1 kg



IN	
Energy	7 MJ
Mineral resources	0 kg
Water	0.01 kg

OUT	
CO ₂	0.5 kg
SO _x	0.0006 kg
NO _x	0.008 kg

Distribution/Sales Stage

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Pursuing environmental burden reduction efforts in the distribution stage, from a shift to railway transportation to adoption of new packaging

Modal shift promotion

System combining truck and railway transportation promoted.



Wide-area delivery center enhancement
Nationwide transportation routes optimized.

Integration of delivery database
Efficiency in allocating number of shipments improved.

Adoption of packaging boxes using soybean ink

Use of volatile organic compounds (VOCs) restrained.



IN	
Energy	82 MJ
Mineral resources	0 kg
Water	3,520 kg

OUT	
CO ₂	36 kg
SO _x	0.03 kg
NO _x	0.02 kg

Usage Stage

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Disclosing environmental information for customer use at the time of product purchasing

Conformity with the Law on Promoting Green Purchasing

Certification as a Fujitsu Green Product
Satisfied original standards established by Fujitsu.



Achievement of target standards for energy consumption efficiency



Conformity with 3R PC Eco-labels
Satisfied standards established by the Japan Electronics and Information Technology Industries Association.



Compliance with the International Energy Star Program



Acquisition of EcoLeaf environmental label



EcoLeaf environmental labels are granted to products whose life cycle environmental burden has been calculated. Fujitsu is the only company to acquire the label for PCs.

IN	
Energy	-4 MJ
Mineral resources	-0.2 kg
Water	-319 kg

OUT	
CO ₂	-2 kg
SO _x	-0.003 kg
NO _x	-0.004 kg

Collection/Reuse/Recycling Stages

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Promoting recycling and reuse to contribute to creation of a cyclical society



Fujitsu Recycling Center

Recycling of magnesium alloys
Magnesium alloy cases we collect reused in new products.



Semi-closed recycling of waste plastic
ABS resin we collect reused in new PCs.



Promotion of parts reuse
HDDs, CPUs and memory reused after data erasure.



Use of dismantling manuals
Manual produced for each product.

Sales of refurbished PCs

PCs inspected, cleaned and reused following lease expiration.

