



Environmentally aware Product Development

In life-cycle assessment (LCA), we conduct LCA evaluations of package substrates, revealing that energy ratios in the manufacturing states are extremely high and that differences exist between plants.

For green purchasing, we issued our Green Procurement Control Regulations in 2006, setting forth clear criteria for the components and materials that make up products and helping to ensure consistency with related regulations.

Life-cycle Assessment (LCA) Efforts

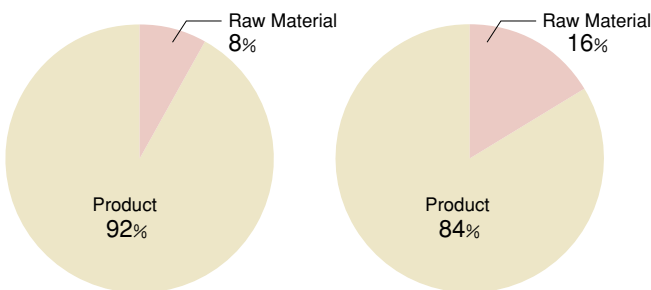
Steadily reducing environmental impact necessitates conducting evaluations of a product right from its development and design stages and applying the results back into those processes. At IBIDEN, we drafted standards for conducting life-cycle assessment (LCA) and for green purchasing in fiscal year 2006. In fiscal year 2007, we will create systems that enable activities to be carried out dependably.

LCA Assessment

Conducting LCA evaluations makes it possible to obtain a quantitative understanding of environmental impact throughout the life cycle, from raw-material procurement through to manufacturing, shipment, use, and recycling or scrapping.

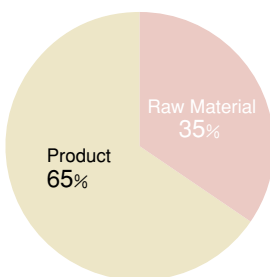
In fiscal year 2006, the results of LCA evaluation for the products of our plants revealed differences in the energy ratios in the manufacturing stages for the products from each plant.

Evaluation of Greenhouse-gas Emissions in the Manufacturing Stage According to LCA Evaluations of Substrates



Gama Plant Package Substrates

Ogaki Plant Package Substrates



Aoyanagi Plant Package Substrates

Future Action

To diminish energy consumption in the manufacturing stages of printed wiring boards, we will press ahead with obtaining environmental-efficiency indicators for carbon dioxide for the manufacturing processes and equipment and devote efforts to CO₂-reduction activities and evaluations of these activities, taking the results of LCA evaluations into account.

Green Purchasing

To ensure compliance with the RoHS Directive, China's RoHS, and other environment-related legislation, IBIDEN issued the "Green Procurement Standards" in fiscal year 2005.

We have also created a "Green Procurement Information Usage System" and devised a control system. In fiscal year 2006, we issued the "Green Procurement Control Regulations" for incorporation into the management systems of ISO 14001.

In these, we set forth clear criteria for the components and materials that make up products, helping to ensure consistency with related regulations so as to enable implementation throughout the supply chain.

We will work to expand implementation and the number of regulated substances for the materials employed in manufacturing processes as well.

Item	Standard
Copier Paper	Must be 100% recycled pulp content and whiteness of about 70% or lower
Toilet Paper	Must be 100% recycled pulp content
File	Must be a product bearing the Eco Mark
Stationery	Must be a product bearing the Eco Mark
Copying Machine	Must have a low-power mode function and be capable of two-side copying
Fluorescent Lamp	Must have a high-frequency ballast
Fluorescent Lamp	Must have a high-frequency blinking form
Incandescent-bulb Lamp	Must have a bulb-shaped fluorescent lamp
Printing	Inks used for printing: 1) Must use petroleum solvents that contain no aromatic components, and must use ink in which vegetable-oil content is increased and petroleum solvents are reduced 2) Must use inks containing no hazardous chemical substances
Vending Machine	Low-energy vending machines must be installed (use of carbon dioxide as the refrigerant, use of proximity sensors, etc.)
Company-owned Vehicle	A hybrid car or low-emissions gasoline-powered vehicle must be used