

Life Cycle Assessment (LCA)

Progress made on Life Cycle Assessment (LCA)

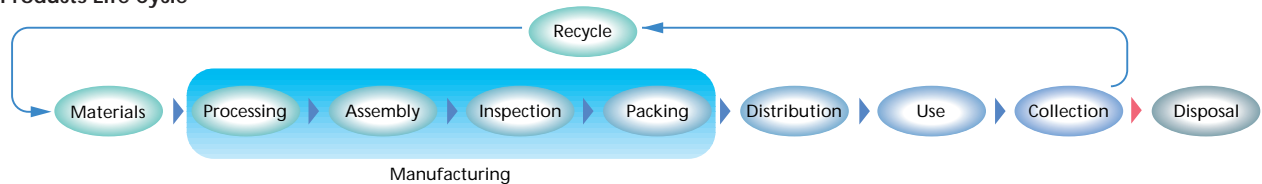
Fujitsu is working to expand the scope of its product development efforts to take into account the effects of products on the environment over their entire life cycle, and to try to prevent them contributing to global warming. During fiscal 1999, Fujitsu completed evaluating what effect 21 product models have over their product life cycles in terms of the amounts of carbon dioxide produced—a generally accepted measure of the possible global warming effect. The company also finished developing an LCA support system designed to increase the overall efficiency of the LCA process.

Products evaluated via LCA process

- Notebook computers 5 models
- Desktop PCs 2 models
- Mobile telephones 3 models
- ATMs 4 models
- Cathode-ray tube/liquid crystal displays 2 models
- IA servers 2 models
- Scanners 1 model
- Routers 1 model
- Point-of-sale terminals 1 model

Total: 21 models

Products Life Cycle

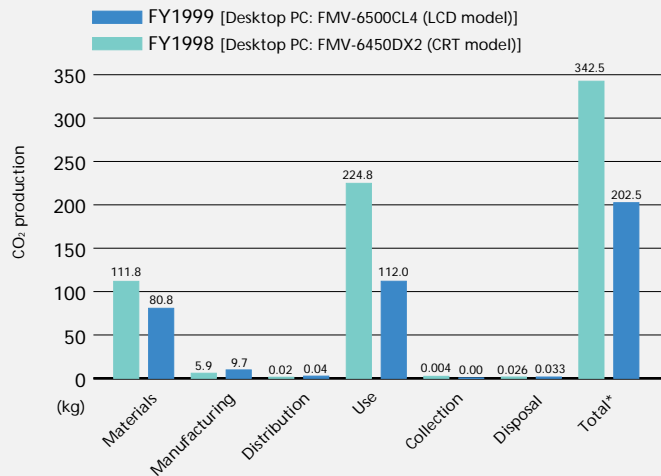


Desktop PC: example of evaluation results for CO₂ emission



FMV-6500CL4

* Compared with older models, the fiscal 1999 models make possible reductions in CO₂ production of up to 27% at the purchasing stages and 50% at the usage stages, respectively* for a total reduction of 40%.



LCA support system

- The LCA support system enables quantitative assessments of the environmental impact of a product to be made not just during use, but also at all the other stages of its life cycle, from manufacturing through to disposal.
- To make calculations of the amounts of carbon dioxide emitted by a product, Fujitsu has developed the FJVP/ECODESIGN system, which is connected to a 3-dimensional CAD system. This system can automatically calculate in real time the effect of any changes in component shape or material on the carbon dioxide production of a product over its life cycle, thus enabling developers to improve its design quickly.

Principal plans for fiscal 2000

- Expand application of LCA to all products
Unix servers, system printers, etc.

