



# Epson and the Global Environment

## A Record of Achievement

“Epson was the first company to eliminate CFCs from its manufacturing processes and reduce carbon-dioxide emissions from its plants and offices.”

*Epson takes pride in its history of technological innovation and development of quality products that meet the needs of its customers. In addition, Epson has long been a proactive proponent of environmental action and is now one of the leading environmental companies in the world.*

### **Achieving co-existence between business and the environment**

Epson is committed to integrating environmental considerations into all our corporate activities and to strive to meet the highest conservation standards to promote co-existence between business and the global environment and to fulfill our responsibilities as a global corporate citizen. We run environmental programs in every country and region where we operate and employ identical criteria and targets worldwide.

### **Epson's Environmental Policy commits the company to:**

- Creating and providing earth-friendly products
- Recovering and recycling used products
- Sharing environmental information and contributing to regional and international conservation efforts

- Transforming all processes to reduce the burden on the environment
- Continually improving its environmental management system

In addition, Epson is a member and active participant of the United Nations Global Compact and is committed to upholding universal principles regarding human rights, labor and the environment.

### **ISO 14001:2004 certification**

61 Seiko Epson Group companies have achieved ISO 14001:2004 certification, including Epson America, Inc. This internationally recognized environmental management system specifies requirements for establishing corporate environmental policy; monitors implementation and operation of programs and measures the environmental impacts of products, activities and services.

# Epson and the Global Environment

## Action 2010 General Environmental Plan

Epson's Action 2010 General Environmental Plan lays out Epson's key environmental goals for FY2006 to FY2010. These are aggressive goals established to make environmental considerations an integral part of Epson's business practices and focus on four main areas: global warming prevention, substance management, resource reduction and recycling, and education and social contributions.

## Epson addresses environmental impact throughout product lifecycle

Epson is committed to delivering products that have smaller environmental footprints. Because of this, we have implemented a lifecycle assessment (LCA) program to analyze the impact that each product has on the environment at every stage of its lifecycle from components and materials production, manufacturing and distribution, to use and recovery/recycling.



## Innovative and efficient product design

The environmental effects of a product throughout its lifecycle are mostly determined at the planning and design stages. Epson is continually refining its product designs through its environmental initiatives to reduce energy and resource requirements and eliminate the use of hazardous substances, while increasing the use of renewable resources and components. We are

focused on developing product designs that can be easily disassembled and recycled and have reduced the size of our packaging. In addition, all of our ink cartridge packaging is now made with recycled materials.

---

**“All Epson products worldwide are compliant with RoHS standards.”**

---

## Compliance with standards

Epson is aggressively working toward compliance with all substance regulations for designated harmful substances. All Epson products worldwide are now compliant with RoHS standards. In addition we have met the requirements of 14 other national Eco Label programs.

## Epson maintains a 100% green purchasing rate

As a founding member of the Japan Green Procurement Survey Standardization Initiative, Epson purchases only green production materials (including all components, raw materials, packaging materials and OEM products used in our products) and has maintained a green purchasing rate of 100% worldwide since 2004. All suppliers are required to maintain a reliable system to assure that no banned substances are included in their products.

## Global warming prevention in manufacturing

Epson has set in place policies with the goal of making Epson number one in the reduction of global warming emissions. Epson was the first company to eliminate CFCs. In addition, it has reduced its CO<sub>2</sub> emissions by 50% over 1990 levels on an actual per unit of sales basis and is continuing to minimize increases in energy consumption relative to business growth. Epson is carrying out programs around the world to achieve two main goals: the continued reduction of CO<sub>2</sub> emissions by conserving energy and the reduction of emissions of greenhouse gases other than CO<sub>2</sub>.

## The Epson Method for PFC emissions

PFC gas is one of the most difficult to measure of the non-CO<sub>2</sub> greenhouse gases. To address this issue, Epson has developed the Epson Method which is a simple and accurate way to calculate PFC emissions. Epson has used the Epson Method to sharply reduce the level of PFC emissions and is offering the method free to other companies.



**“Epson was the first charter member of the EPA's National Environmental Performance Track Program.”**

## Epson's global drive for zero emissions

Zero Emissions is an initiative proposed by the United Nations University aimed at limiting the generation of wastes and implementing higher levels of recycling. Epson began company-wide zero emissions activities in 1997 and has achieved a 100% recycling of waste generated by all Epson companies in Japan and all Epson manufacturing companies worldwide. In addition, Epson introduced innovative zero emission production processes to further reduce the amount of waste generated and as a result, by 2006 it had reduced the volume of waste generated by more than 15% from 2002.

## More environmentally-focused distribution

Epson is also reducing its environmental impact by making changes in its Distribution Operations. With more efficient transport planning for product delivery and the standardization of packaging, Epson has already reduced CO<sub>2</sub> emissions by over 77,000 tons/year.

## Eco-friendly products

Epson is continually refining the design of our products, including printers and scanners. We have made significant strides in developing products with exceptional energy-saving performance and maximum recyclability, while using less resources, eliminating harmful substances and optimizing the useful

life of our products. All of this adds up to products with smaller environmental footprints. Epson discloses product environmental data for each product to customers so they can select products with the best environmental performance that meet their needs.

## Recovery and recycling

Epson builds environmental considerations into its products right at the design stage to make it easier to recover resources and recycle products at the end of their life cycle. Epson's goal is to build or use recovery/recycling systems that meet local regulations and the needs of consumers on a regional basis. Today, virtually all Epson hardware products, including printers, scanners and projectors, are eligible for recycling and, in the United States, are recycled through licensed recycling facilities.



## Sustainability of our forests

Epson has worked with WWF, the global conservation organization, on issues concerning forest protection and the global forest certification program. Epson is currently working with suppliers in its supply chain for wood products all the way back to the forest to ensure that trees are legally harvested using sustainable methods and environmental practices.



## Find out more

To learn more about Epson's environmental programs, go to [pos.epson.com](http://pos.epson.com).

## Recent Environmental Achievements

- Reduced CO<sub>2</sub> emissions from factories and offices by 50% from 1990 to 2006 on an actual per unit of sales basis.
- Reduced greenhouse gases including PFCs in Japan by 40% from 1990 to 2006.
- Reduced release of PRTR pollutants by 56% from 2002 to 2006 in Japan exceeding our target of 30% reduction.
- Seiko-Epson obtained COC certification for paper products certified by the Forestry Stewardship Council.
- Maintained 100% green purchasing since 2004.
- Achieved 99% halogen-free and 99% PVC-free packaging by 2006.
- Met RoHS compliance requirements for all Epson products worldwide.
- Introduced system for surveying suppliers and established incoming inspection system to assure no banned substances used in products.
- Increased patent applications for technology to deal with environmental issues by 30% over 2005.
- Reduced waste by 41% by increasing effective use of input materials over 2002.
- Developed and initiated sales of genuine recycled ink cartridges.
- Expanded environmental accounting system to 37 affiliates.

## Recent Environmental Awards

Chairman's Award — Life Cycle Assessment Society of Japan



Minister of the Environment Award — Ozone Layer Protection and Global Warming Prevention Best-of-the-Best Award (Japan)



Nikkei Global Environmental Technology Award (Japan)



U.S. EPA National Environmental Performance Track Program "Leader among Leaders" Award



Prestigious WorldStar Award for Environmentally-Conscious Packaging (worldwide)



Italy's Ecohitech Product Award 2007 for Energy Saving and CO<sub>2</sub> Reduction

