

YOUR WISH

IS OUR PRINT ON DEMAND



Ecology with Screen



Specifications for FSC certified paper

This label indicates the use of paper that has received certification from the Forest Stewardship Council (FSC) as being made from raw materials comprised of wood (certified) drawn from appropriately managed forests.



Adoption of environmentally responsible printing

This label indicates materials that have been created using environmentally friendly printing methods conforming to the Silver certification standard advocated by the Environment Pollution Prevention Printing Association.

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• This brochure was made using SPEKTA 2 screening.

We reserve the right to alter product design and specifications without prior notice.



SCREEN

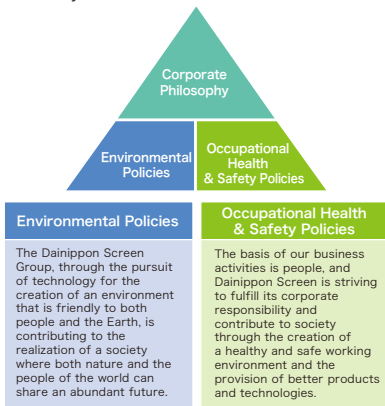
Environmental initiatives

As a corporation that has developed in the city where the Kyoto Protocol was launched, Screen is fully committed to environmental management

The spirit of 'zero waste,' a traditional Kyoto virtue

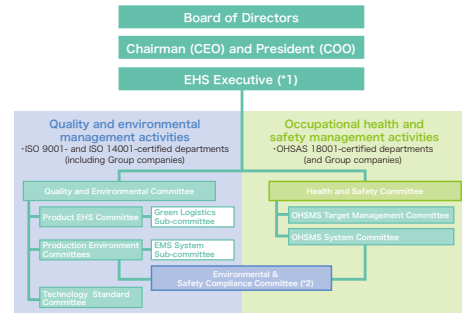
Environmental management concepts and policies

Screen is dedicated to responding to the requirements of our stakeholders. In this endeavor, we undertake environmental management, which can create environmental and economic value continuously.



Environmental management structure

Screen organizes the committee specialized to manage product quality, environmental protection, and occupational health and safety under the supervision of our EHS Executive.



* 1: Chaired by the head of the General Affairs & EHS Strategy Department.
EHS: Environmental Health and Safety
* 2: In charge of periodically gathering and communicating information on environmental and safety legislation (lead by Environmental and Safety Department of General Affairs Company).

Establishment of a new Screen train station to decrease commuting by private car and thereby reduce CO₂ emissions

Screen has established a new train station on the plant site, to respond to the personnel moves to centralize production facilities to Hikone Plant. Screen Station began operation on March 15, 2008 as a stop on the Toga Line run by the Ohmi Railway Corporation.

As well as improving the convenience of employees, the station has decreased commuting by car, leading to annual reductions in carbon dioxide (CO₂) emissions of approximately 720 tons. The facility has also resulted in less traffic congestion on roads in the surrounding area. Screen Station can, of course, also be public for local passengers.



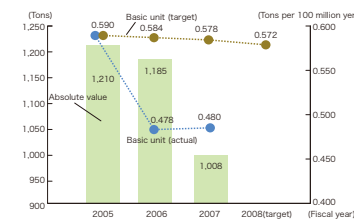
Modal shift actions

● Marine transportation

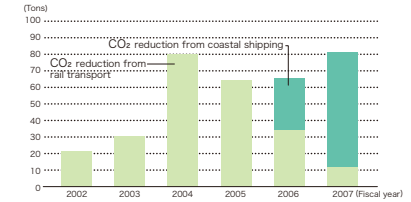
As one of our ongoing initiatives to promote more environmentally friendly distribution, the Screen Group has partially switched the use of transportation from by automobile to by railways. In addition, from April 2007, for our semiconductor and flat panel display production equipment, we have shifted roughly 70 percent of our approximately 650 kilometers (404 miles) of truck-based land transportation to ferry-based marine transportation.

This modal flow, which involves the manufacturer, distribution industry, and shipping industry operating in a three-point system, has allowed us to significantly exceed our goal for reducing the CO₂ emissions per unit of sales related to the transportation of our products. While we were aiming for a decrease of two or more percent compared to FY2005, we actually achieved a reduction of some 23 percent.

CO₂ emissions from logistics operations



CO₂ emissions reduction enabled by modal shift in product transport



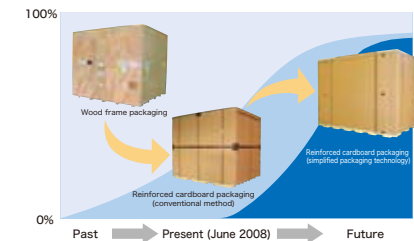
Initiatives to reduce the weight of packaging materials for products

Changeover to a new method of packaging based on a shift from wood/plywood to reinforced cardboard

In April 2008, Screen adopted a world-first simplified packaging technology for the transportation of large-size products invented by one of our group companies, Transup Japan. With this simplified packaging system, of the skid, end, side, and top sections that comprise the boxing, all parts except for the skid have been changed from wood and plywood to reinforced cardboard and aluminum. Previously, these wood parts were processed as waste materials.

This switch has enabled the introduction of lighter weights and also a wider variety of sizes for packaging materials. In addition, thanks to the insertion style construction, additional materials such as nails and bolts and specialized tools are not required, which significantly shortens the work time needed when assembling and breaking down packaging.

Employing reinforced cardboard for the large sections of packaging in this way reduces the use of wood and plywood in distribution by up to around 70 percent. It also decreases the generation of waste materials that occurs during the reuse of components after uncrating and is valuable for improving the ratio of resource recycling.



Stop wasting paper with POD

A world that needs to reduce carbon dioxide emissions

Preserving the earth's environment is a problem that all humanity must address, and efforts to reduce emissions of greenhouse gases, including carbon dioxide, are already underway. It is reported that in 2005, approximate 27 billion tons* of CO₂ were released into the atmosphere, and the need to reduce CO₂ emissions has become extremely urgent. The world's manufacturers are striving to become carbon neutral by planting trees and using sustainable sources of energy. Many companies have taken it upon themselves to promote carbon offsets as a way to get as close to zero emissions as possible, and some companies are already taking concrete steps to reduce their total emissions.

In Japan, where the most of Screen products are manufactured, the total of 1,359 billion tons of greenhouse gas emissions from Japan in 2005 was 7.7% higher than the standard annual amount defined in the Kyoto Protocol. This is apparently due to excessive emissions of CO₂, which makes up more than 90% of all greenhouse gas emissions. The portion of CO₂ emitted by industrial sources is quite large, so manufacturers in Japan are being asked to take immediate steps to reduce their CO₂ emissions. The printing industry is no exception.

* International Energy Agency (IEA), 2007

What makes reducing printing paper such an intrinsic part of reducing CO₂ emissions

Everyone knows that reducing greenhouse gases, especially CO₂, is a bigger issue today than ever before. There is one particular reason why reducing the amount of printing paper used is relevant to reducing greenhouse gas emissions.

When the paper for printing is produced, a great deal of CO₂ is emitted. In fact, for each ton of printing paper, about 600 to 700 kg of CO₂ is generated. According to reports published by the government of Japan, 98.7 tons of printing paper are used in Japan annually, which translates into somewhere between 59 and 69 million tons of CO₂ emitted during the manufacturing of that paper. That is 5% of Japan's annual total CO₂ emissions. It has therefore become a focus in the printing industry to reduce wasteful use of paper.

To use printing paper efficiently...

1. Work on shifting from mass production to a business model in which only the necessary amount of product, containing the necessary information, is produced.
2. Strive to reduce the creation of waste sheets such as those generated while making printing environment settings, including color matching settings.
3. Direct mail and leaflets are often discarded unread. To reduce the likelihood of this happening, it's best to offer only the amount of product needed, when needed, and to those who need it.

All of the above measures are crucial to making the use of printing paper more efficient.

Adding value to printed products supports the environment

Adding value to printed products involves not only improving quality, but also incorporating personalization, in which tailored to the individual customer is printed and sent to that customer. In other words, it's essential to shift from the mass-produced materials, to the items optimized for individuals, such as localized document or sales materials that feature information tailored to the purchasing habits of each specific customer.

Dainippon Screen has consistently offered products that meet the changing needs of the printing industry. In today's world, where reducing greenhouse gas emissions is such an important task, Screen has devoted its energy to creating products that are environmentally friendly. This is evident at drupa 2008, where Screen is showcasing its Print on Demand (POD) products. Screen's development of POD products that enable optimized production of value-added printed products—in other words, products that brings efficient and environmental business model to the printing companies and help to reduce their CO₂ emission—advances constantly.

Screen continues to develop solutions featuring POD products that use inkjet technology and enable speedy printing of targeted, necessary information thanks to functions that are compatible with better personalization and segmentation.

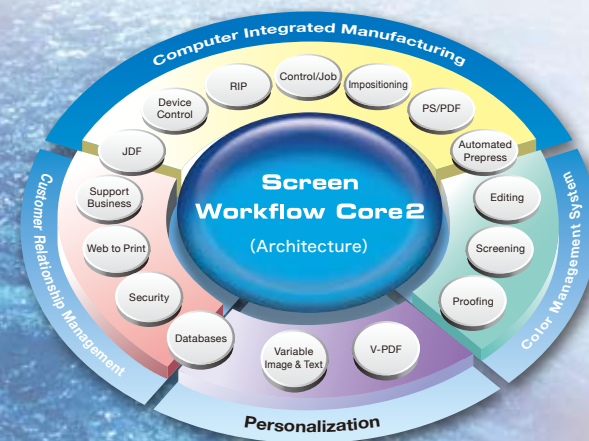
Customers tell us that the Truepress Jet full-color variable printing system is ideal for TransPromo work. One of the reported advantages of the Truepress Jet is that its system configuration is very flexible, to suit the applications it will be used for. Printing information that has been customized for each individual customer increases the rate of consumer response to direct mail. Since the Truepress Jet makes it possible to produce the right amount of product, this printing system reduces the amount of paper wasted, and therefore reduces CO₂ emissions as well.

The Truepress Jet SX, a concept product on display at drupa this year, is a revolutionary inkjet printer that supports digital production of general commercial printing materials. The production of commercial printings usually involves wasting a lot of paper as much as 5 to 10% of the total used while waiting for an OK sheet during color matching. The Truepress Jet SX both reduces this start-up waste, which is peculiar to standard commercial printing, and shortens the color matching process.

As you can see, Dainippon Screen continues to develop products that require fewer resources and support our customers' demand to become more ecological. Screen, just like every other company, is part of this great social experiment in which businesses throughout the world are asking how they can reduce the impact of the printing industry on the environment, in terms of paper used and CO₂ emitted. Screen is already the number one vendor of CtP equipment worldwide, and we look forward to continuing to develop ever more advanced technologies that support environmentally friendly production and reduce CO₂ emissions as the printing industry enters the POD era.

EQUIOSNET

The amount needed, when it is needed,
in the hands of those who need it



Conditions in the printing industry are changing dramatically as concerns about preserving our global environment increase. This has resulted in increased interest in shifting from mass production of printed products to the production of personalized products with added value. The Screen Group has expanded on its market proven CtP workflow, Trueflowmet, with new workflow elements that are essential for personalized production realized by cutting-edge inkjet technology. This new workflow concept, EQUIOSNET, which will be promoted by Screen in 2008 as a new business solution for the printing industry, makes it possible to do business in the printing industry in a way that is compatible with today's more environmentally conscious world.

CtP: Prioritizing the environment

Environmental impact assessment for products

Since FY2002, the Screen Group has applied an environmental impact assessment to products as a form of design review at the time of product development. The following five broadly defined items are employed in this assessment.

- 1 Energy conservation
- 2 Resource conservation (reduction)
- 3 Resource conservation (reuse, recycling)
- 4 Safety/chemical management
- 5 Information disclosure

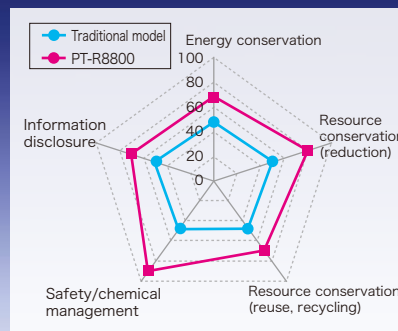
Energy conservation

The PlateRite 8800ZX is equipped with a 1,024 channel exposure head, developed through the application of the latest GLV™ (grating light valve) technology. In thermal Computer-to-Plate (CtP) printing capable of outputting 50 B1-size plates per hour, this high-end model delivers a top-class exposure speed.

Productivity can be changed after installing by replacing required parts according to the user situations, which can eliminate the need to purchase a whole new model. In line with Screen's product policy, the PlateRite 8800ZX conforms to Europe's RoHS directive.*

PlateRite 8800ZX

Thermal CtP, always at the forefront, delivers top-class speeds and productivity.



* European Parliament and Council directive related to restrictions on the use of specific toxic substances that are included in electric and electronic equipment. The directive came into force on July 1, 2006.

Resource conservation (reduction)

In addition to the products themselves, Screen also maintains the levels of harmful chemicals present in the materials used in packaging at or below the regulated values.* We are also working to reduce the overall usage of hazardous substances in production and development lines.

* The total amount of lead, mercury, cadmium, and hexavalent chromium should not exceed 100 ppm.

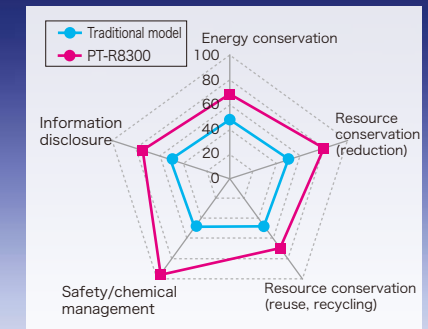
Resource conservation (reuse, recycling)

In order to increase productivity and deliver a work environment that can respond flexibly to each customer's future needs, Screen has added optical parts (laser diodes) to the PlateRite 8300E. This allows an upgrade that delivers equivalent productivity to the PlateRite 8300S, the next model in the series.

In this way, as well as preventing the disposal of resources that accompanies product obsolescence, the system facilitates a smooth transition to CtP. As a result, there is a significant reduction in environmental impact compared to conventional work processes.

PlateRite 8300

The PlateRite series: High-performance CtP that meets individual needs.



In FY2007, with a view to improving the recycling ratio of materials after product disposal, the Screen Group also started programs to raise the potential for disassembly of parts that often hinder recycling.

Safety/chemical management

In July 2006, the RoHS directive came into effect in Europe, drawing close scrutiny from the international industrial community. The directive is designed to, in principle, exclude the hazardous chemical substances* that were included in conventional products. The Screen Group has incorporated conformance of products with the RoHS directive into company policy and is working to ensure that all CtP products are compatible with the regulation.

* Lead, mercury, cadmium, hexavalent chromium, bromine series flame retardants (PBB/PBDE)

Information disclosure

The Screen Group is moving forward with preparations to publicly release the results of the LCAs* for all products. We are also providing information that will be required at the time of product disposal as a provision for when these items are no longer required in the future.

* LCA (Life cycle assessment)

A method for expressing the total volume of CO₂ emissions over a product's life. Starting with the natural resources that make up a product, the energy used, for example, in manufacturing the components and assembling the product as well as the energy consumed when the product is used and the proportion of materials that can be reused when the product is finally disposed of, these factors are all converted into CO₂ emissions.