TOSHIBA
Leading Innovation >>>

FOR RICH VALUE CREATION AND GLOBAL ENVIRONMENTAL HARMONY

Toshiba Tec's Printing Solutions Group, as a member of one of the world's foremost eco-companies, works to help provide enriching lives for people in harmony with the environment.

1. We will promote global environmental protection through creation of Excellent Environmentally Conscious Products ("Excellent ECPs").
2. We will pursue outstanding environmental performance through Toshiba Tec's unique technologies.
3. We will support both business and environmental activities together in harmony through the pursuit and further penetration of environmental awareness.

Based on the "3 Greens " of the Toshiba Tec's basic policy, we achieve the rich value and harmony with the environment.

Green Process
Environmentally conscious manufacturing

Green Management
Continuous improvement of basic activities

Green Product
Outstanding environmental performance

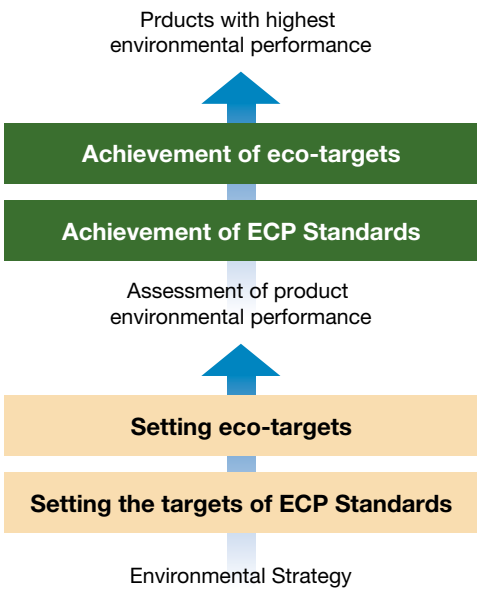
Mitigation of Climate Change | **Efficient Use of Resources** | **Management of Chemicals**

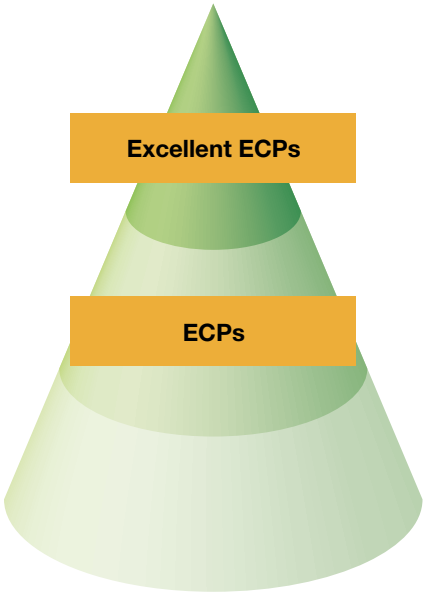
TOGETHER INFORMATION

CREATING "EXCELLENT ECP"—PRODUCTS AS OUTSTANDING ENVIRONMENTAL PERFORMANCE

The Toshiba Tec Printing Solutions Group provides "Green Product" in pursuit of "Outstanding Environmental Performance" in every product we develop.

Steps for planning and developing "Green Product"





Key ECP Standards:
- ENERGY STAR based on TEC value (kWh/week)
- Recycled plastic usage (%)
- Product weight (kg)
- Footprint (mm^2)
- RoHS Compliant

Realising the three aspects of ECPs

Mitigation of Climate Change
- Reduction of power consumption (standby and In-use)
- Visualisation of power consumption

→ **Reduce TEC and LCA values**

Efficient Use of Resources
- Reductions in use of raw material
- Use of recycled material
- Reductions in use of packing material

→ **Use recycled plastics**

Management of Chemicals
- Reduction of specific hazardous substances
- Compliance with chemical regulations

→ **Halogen-free PVC-free**

TEC value (Typical Electricity Consumption):
It is the standard for conformance with the International ENGERY STAR Program. It refers to the amount of electricity (kWh), typically consumed in one week by office equipment.

LCA value (Life Cycle Assessment):
This assessment is conducted based on total carbon dioxide (CO_2) emissions at every stage of a product's lifecycle.

TOSHIBA TEC'S UNIQUE TECHNOLOGIES

Through use of Excellent ECPs that leverage Toshiba Tec's unique technologies, each and every customer helps protect the global environment.

Erasable Toner (Multifunction Peripheral)

Erasable toner produces colour that can be erased when heat is applied. Utilising the Paper Reusing System that makes use of this technology promotes reuse of paper to help mitigate climate change and further promote efficient use of resources.

For example, a multifunction printer in the medium-speed range on average prints 54,000 sheets of paper in a year. Converting to 2,500-sheet boxes, this is the equivalent of using 21 boxes of paper. Utilising the Paper Reusing System, paper usage can be reduced by 17 boxes, or 43,200 sheets, annually.

Multifunction Peripheral	Number of Sheets per Year	Number of Boxes (2,500 sheets per box)
Conventional MFP 	54,000 sheets	21.6 boxes
MFP & Paper Reusing System 	10,800 sheets	4.3 boxes

Number of Sheets Reduced per Year	43,200 sheets	17.3 boxes

* Paper reuse time may vary depending on usage environment. Condition for estimation:
1 - A4 Average Monthly Document Volume: 4500
2 - Used 5 times each (= erasing 4 times)

Reduction of Power Consumption (Multifunction Peripheral)

Thanks to use of IH fusing technology, low-temperature fusing technology, improvements to power source efficiency and adoption of energy-saving CPUs, power consumption from use of MFPs is reduced significantly compared to previous models, which helps mitigate climate change.

Using the latest MFPs, compared to previous models, can reduce carbon dioxide emissions by the equivalent of the amount absorbed by about ten cedar trees in a year.

Multifunction Peripheral	Annual Power Consumption	Annual CO_2 Emissions
e-STUDIO3040CSE Previous 30 ppm Colour MFP 	332.8 kWh	116.6 kg
e-STUDIO3005AC New 30 ppm Colour MFP 	72.8 kWh	25.5 kg

Annual CO_2 Reduction	91.1 kg
CO_2 Absorbed in One Year by Cedar Trees	10.3 trees

*Sources and Parameters
1) Cedar Tree CO_2 Absorbed Amount: From the Forestry Agency website ("40 Years of Planted Cedar Forests")
2) CO_2 Emissions from Power Consumption: 0.35047 kg-CO_2/kWh (based on DEFRA, 2015)

Ribbon Save Function (Barcode Printer)

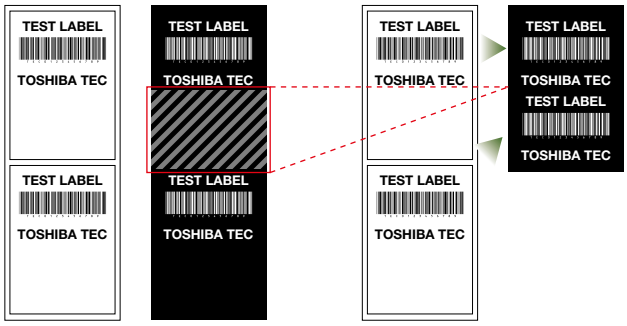
Inclusion of an edge head allows the ribbon save function to minimize ribbon use on areas without print, thereby promoting effective utilisation of resources.

For example, using this ribbon save function, a customer that prints 3,000 labels a day can reduce their ribbon usage from 183 to 72 ribbons per year, or approximately 60%.

Barcode Printer	Number of Ribbons Consumed per Year
Without Ribbon Save function	183 ribbons
With Ribbon Save function	72 ribbons

Number of Ribbons Reduced per Year	111 ribbons
Ribbon Reduction Rate per Year	61%

* Condition for estimation:
1 - Label size: 100 mm (width) x 152 mm (length)
2 - Print area: From label header in the case of 100 mm (width) by 40 mm (length)
3 - Ribbon length per roll: Standard Toshiba Tec ribbon length of 600 m per roll

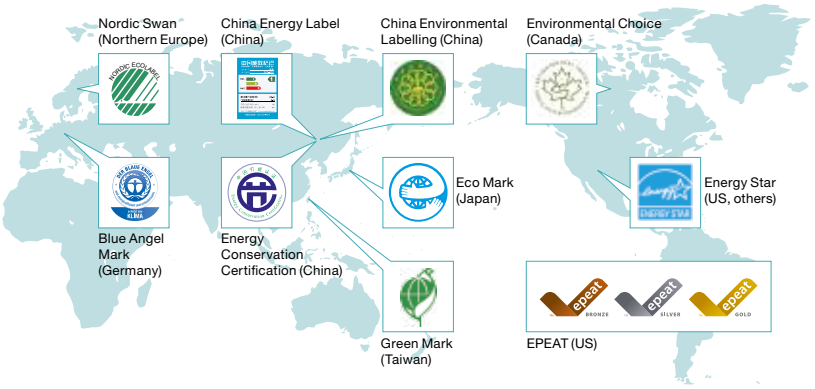


Without Ribbon Save function

With Ribbon Save function

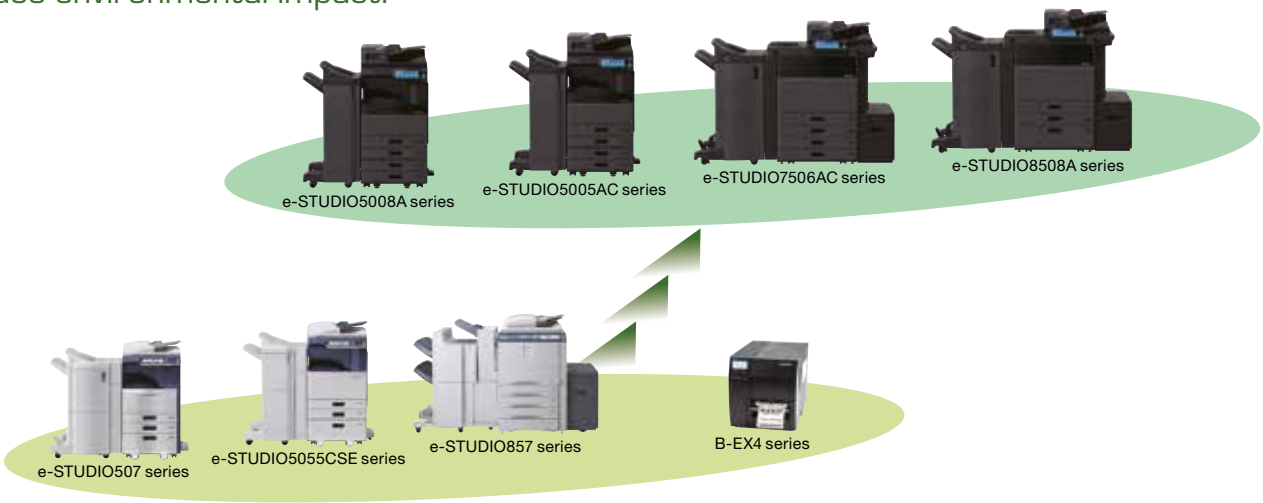
MEET THE MAJOR ENVIRONMENTAL STANDARD REGULATION CRITERIA OF EACH MARKET

Acquiring major environmental certifications in each market plays an important role in promoting environmental policies. In addition, this is included in the eco-target and ECP Standards for ECP certification, so acquiring the latest major environmental certifications is essential.



EXPANSION OF EXCELLENT ECP PRODUCTS

We expand creation of Excellent ECPs with industry-leading environmental performance to reduce environmental impact.



For more information and a complete list of MFPs with this feature, please contact us:

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