

## ENERGY STAR®

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- > The ENERGY STAR is a voluntary labeling programme for products and defines the level of energy efficiency.
- > Toshiba takes the requirements of the programme into account when designing and developing new products.
- > A wide range of Toshiba Multifunction and Barcode Printers are compliant with the ENERGY STAR and are allowed to bear the label.





# ENERGY STAR

## What is the ENERGY STAR?

The ENERGY STAR® is a voluntary labelling programme for energy efficient equipment. The programme was created in 1992 by the US Environmental Protection Agency and has now been adopted by several countries around the world. The category relevant for Toshiba's printing solutions is "Imaging Equipment" (Version 2.0), which is effective since 1<sup>st</sup> January 2014.

## How is the energy efficiency calculated?

Our multifunction printers (MFPs) are evaluated by using the Typical Energy Consumption (TEC) approach. This approach takes the typical usage of a product into account to determine its energy consumption. This is measured for all modes of operation such as active, ready and all sleep and standby modes. The basic requirements are:

- > Calculating a value for the typical weekly energy consumption [kWh/week].
- > Duplex-printing capability depending on product-type and product-speed
  - For colour MFP/printer with a speed of 20-35 pages per minute (ppm) in monochrome, duplex printing must be available as an optional feature; for systems  $\geq 35$  ppm in monochrome, this needs to be a standard feature.
  - For monochrome MFP/printer with a speed of 24-37 ppm it must be available as an optional feature and for devices with  $\geq 37$  ppm duplex printing needs to be a standard feature.

Our barcode systems (BCS) use the Operational Mode (OM) approach. For the Operational Mode ENERGY STAR has defined the maximum power consumption for

- > Sleep mode and
- > Standby mode

It also defines the maximum Default Delay Time - the time after which the printer should switch to sleep mode. If all three criteria are met, the BCS is compliant with ENERGY STAR.

## Our commitment

Toshiba has an ongoing commitment to produce products which comply with the requirements of the ENERGY STAR programme. In every stage of the product development process from conceptualisation, design, evaluation and manufacturing, energy saving features are proposed and executed in order to reach the levels stipulated.



As part of Toshiba's ongoing commitment to improved environmental performance, we believe that our ENERGY STAR compliance is an important milestone on the path to becoming an increasingly environmental conscious manufacturer.

A list of compliant products can be found on our website as well as on the website of the European Union under [www.eu-energystar.org](http://www.eu-energystar.org).

For more information please contact us:

**Toshiba Tec Germany Imaging Systems GmbH**  
 Carl-Schurz-Str. 7  
 41460 Neuss  
 Germany

**Telephone**  
 +49 2131-1245-0

**Fax**  
 +49 2131-1245-402

**Website**  
[www.toshiba-europe.com/tec](http://www.toshiba-europe.com/tec)