



ACENTO

# Carbon footprint of medium sized printer

**Product: Medium sized printer**

**Function: 1month use**

**Type of information: Conservative estimate of life cycle greenhouse gas emissions**

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Illustrative photo

## Procedure:

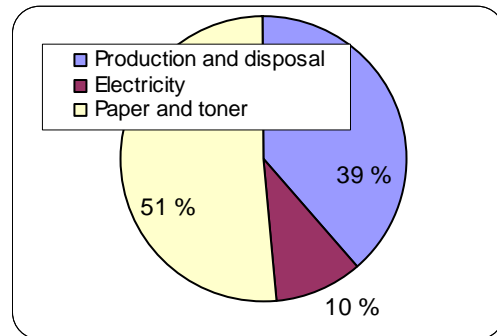
According to agreement with commissioner Acento Finance, MiSA has utilized available literature and databases in order to produce conservative estimates of greenhouse gas emissions during the life cycle of a medium sized printer. In cases where there is a lack of information, or information is in a format not suited for this purpose, MiSA has made simple, conservative estimates. MiSA AS has therefore not performed an LCA of the product in question. More information about this is found in the background report together with references to data and literature that is used. The effect of changing key assumptions in the system is explored under "other considerations".

## Key assumptions:

Lifetime printer: 3 yrs  
Use pattern: 80 prints per day on average  
Technology: Average European  
Electricity mix in use: Nordic  
Paper and toner use is included  
Single sided printouts assumed

## Global warming potential, $GWP_{100} = 39 \text{ kg CO}_2\text{-eq/printer-month}$

Importance of different life cycle stages:



## Other considerations about the product:

### Life time:

If lifetime is reduced to 1,5 yr, emissions increase to 54 kg CO<sub>2</sub>-eq/printer-mnd.

### Electricity mix:

If we assume Norwegian mix, emissions go down to about 35 kg CO<sub>2</sub>-eq./printer-month. If we assume average European mix, emissions increase to 46 kg CO<sub>2</sub>-eq.

### Number of printouts

Doubling the printouts per day increases emissions to 60 kg CO<sub>2</sub>-eq/printer-month.

### Use pattern:

If we assume the printer is turned off 16 hrs/d + week end, emissions reduce to 36 kg CO<sub>2</sub>-eq/printer-month.

See the background report for more information.



This report has been prepared by MiSA AS, a leading provider of Environmental Systems Analysis. E-mail: [info@misa.no](mailto:info@misa.no), Web: [www.misa.no](http://www.misa.no)