



ACENTO

Carbon footprint of small printer

Product: Small 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 small 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: 2 yrs

Use pattern: 20 prints per day on average

Technology: Average European

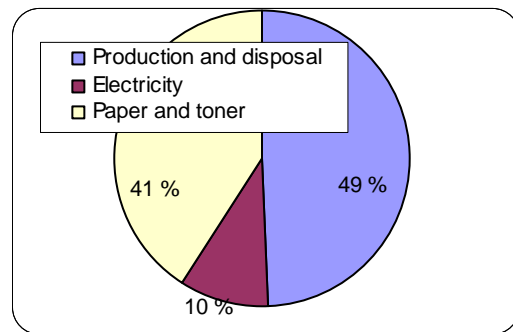
Electricity mix in use: Nordic

Paper and toner use is included

Single sided printouts assumed

Global warming potential, $GWP_{100} = 12 \text{ kg CO}_2\text{-eq/printer-month}$

Importance of different life cycle stages:



Other considerations about the product:

Life time:

If lifetime is reduced to 1 yr, emissions increase to 18 kg CO₂-eq/printer-month.

Electricity mix:

If we assume Norwegian mix, emissions go down to about 11 kg CO₂-eq./printer-month. If we assume average European mix, emissions increase to 14 kg CO₂-eq.

Number of printouts

Doubling the printouts per day increases emissions to 17 kg CO₂-eq/printer-month.

Use pattern:

If we assume the printer is turned off 16 hrs/d + week end, emissions reduce to 11 kg CO₂-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, Web: www.misa.no