

ENVIRONMENTAL PRODUCT DECLARATION

LASER PRINTER CS521DN

According to ISO 14025



High-yield replacement toner and tools that help minimize toner consumption are the Lexmark CS521dn's keys to controlling the cost of color. Built for reliability, performance and security, the CS521dn prints up to 35 [33] pages per minute* and features long-life imaging unit and optional maximum input up to 1451 pages.



Lexmark's innovative imaging solutions and technologies help customers worldwide print, secure and manage information with ease, efficiency and unmatched value. Lexmark simplifies the complex intersection of digital and printed information.

As part of the commitment to our customers, Lexmark performs Life Cycle Analysis on our products. The results of the LCA analysis continues to assist Lexmark in reducing the environmental impact of the hardware, software and services offered to our customers.



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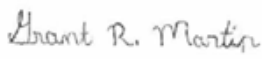

Laser Printer CS521dn
Printers and multi-functional printing units

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This declaration is an environmental product declaration (EPD) in accordance with ISO 14025. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human



health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.

PROGRAM OPERATOR	UL Environment	
DECLARATION HOLDER	Lexmark International Inc.	
DECLARATION NUMBER	I I I I H G J I .102.1	
DECLARED PRODUCT	Laser Printer CS521dn	
REFERENCE PCR	ULE Product Category Rules for preparing an environmental product declaration (EPD) for printers and multi-function printing units (v2.0). UL Environment. April 23, 2018	
DATE OF ISSUE	April 1, 2019	
PERIOD OF VALIDITY	5 Years	
CONTENTS OF THE DECLARATION	Product definition Information about basic material and the material's origin Description of the product's manufacture Indication of product processing Information about the in-use conditions Life cycle assessment results Testing results and verifications	
The PCR review was conducted by:	UL Environment Review Panel	
	Lise Laurin (Chairperson)	
	lise@earthshift.com	
This declaration was independently verified in accordance with ISO 14025 by Underwriters Laboratories <input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL		
	Grant R. Martin, UL Environment	
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:		
	Thomas P. Gloria, Industrial Ecology Consultants	

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Product Description

Product Type	Color Laser Printer
Printer Model	CS521dn
Maximum Print Speed	35 pages per minute
Intended use	primarily office
Range of applications	print images or text in mono or color onto paper or paper-like media
Product Lifetime	5 years
Introduction Date	6/19/2018
Product Specifications	http://www.lexmark.com/en_US/products/series/printer-and-multifunction/finder.shtml
Functional Unit	The functional unit has been defined as a 1,000 page simplex job in accordance with the Energy Star Typical Energy Consumption test procedure and the reference Product Category Rule (PCR).
Scope of Validity / Applicability	The EPD is representative for the printer model CS521dn sold as a stand-alone unit. This EPD and the reference PCR are applicable for printer sale and use in the North American market. Lexmark cannot guarantee that comparisons with EPDs of competitive products will be valid.
Product Characterization	The up-to-35 [33]-ppm* Lexmark CS521 dn helps you control the cost of color output with high-yield replacement toner and tools that minimize toner consumption. The printer fuses to a medium (such as paper) to create hard copy images from electronic or hard copy originals. The printer product delivered to the customer consists of the printer, a power cord, printed setup instructions, a CD/DVD that includes the User Guide and Printer Drivers and an initial set of product supplies. The printer is delivered in packaging that can be recycled locally and is not needed for product operation. Product supplies include toner cartridges, imaging kits and the fusing mechanism. The power supply is internal to the product and the imaging kit and fusing mechanism are installed at the factory. Only the toner cartridges must be installed by the customer. The printer can be setup by the customer without outside assistance.

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Technical Data

Product specifications	Lexmark CS521dn
Printing	
Display	2.4-inch (60 mm) Color LCD display
Print Speed: Up to ¹	Black: 35 ppm / Color: 35 ppm
Time to First Page: As fast as	Black: < 7.5 seconds / Color: < 7.5 seconds
Print Resolution	Black: 1200 x 1200 dpi, 4800 Color Quality (2400 x 600 dpi) / Color: 1200 x 1200 dpi, 4800 Color Quality (2400 x 600 dpi)
Memory / Processor	Standard: 1024 MB / Maximum: 1024 MB / Dual Core, 1000 MHz
Hard Disk	Not Available
Recommended Monthly Page Volume ²	1500 - 8500 pages
Maximum Monthly Duty Cycle: Up to ³	85000 pages per month
Supplies⁷	
Laser Cartridge Yields (up to) ¹	1,400-page Colour (CMY) Cartridges, 2,000-page Black Cartridge, 5,000-page Colour (CMY) Extra High Yield Cartridges, 8,500-page Black Extra High Yield Cartridge, 7,000-page Colour (CMY) Ultra High Yield Cartridges, 10,500-page Black Ultra High Yield Cartridge
Photoconductor Estimated Yield: Up to ³	125,000 pages, based on 3 average letter/A4-size pages per print job and ~ 5% coverage
Cartridge(s) Shipping with Product ⁴	2,000-page color (CMY) Return Program Toner Cartridges, 3,000-page Black Starter Return Program Toner Cartridge
Paper Handling	
Included Paper Handling	250-Sheet Input, 125-Sheet Output Bin, Integrated Duplex, Single-Sheet Manual Feed
Optional Paper Handling	550-Sheet Tray, 650-Sheet Duo Tray
Paper Input Capacity: Up to	Standard: 250+1 pages 20 lb or 75 gsm bond / Maximum: 1450+1 pages 20 lb or 75 gsm bond
Paper Output Capacity: Up to	Standard: 125 pages 20 lb or 75 gsm bond / Maximum: 125 pages 20 lb or 75 gsm bond
Media Types Supported	Card Stock, Envelopes, Paper Labels, Plain Paper, Vinyl Labels, Refer to the Paper & Specialty Media Guide
Media Sizes Supported	10 Envelope, 7 3/4 Envelope, 9 Envelope, A4, A5, B5 Envelope, C5 Envelope, DL Envelope, Hagaki Card, Executive, Folio, JIS-B5, Legal, Letter, Statement, Universal, Oficio, A6
General Information⁴	
Standard Ports	USB 2.0 Specification Hi-Speed Certified (Type B), Gigabit Ethernet (10/100/1000), Front USB 2.0 Specification Hi-Speed Certified port (Type A)
Optional Network Ports	Marknet N8372 WiFi Option
Noise Level: Operating	Print: 50 dBA
Specified Operating Environment	Humidity: 8 to 80% Relative Humidity, Altitude: 0 - 3048 Meters (10,000 Feet), Temperature: 10 to 32°C (50 to 90°F)
Limited Warranty - See Statement of Limited Warranty	1-Year Advanced Exchange, Next Business Day
Size (in. - H x W x D) / Weight (lb.)	12.1 x 17.4 x 16.6 in. / 46 lb.

All information in this brochure is subject to change without notice. Lexmark is not liable for any errors or omissions.

¹Average continuous black or continuous composite CMY declared cartridge yield up to this number of standard pages in accordance with ISO/IEC 19798. ²Recommended Monthly Page Volume² is a range of pages that helps customers evaluate Lexmark's product offerings based on the average number of pages customers plan to print on the device each month. Lexmark recommends that the number of pages per month be within the stated range for optimum device performance, based on factors including: supplies replacement intervals, paper loading intervals, speed, and typical customer usage. ³Maximum Monthly Duty Cycle³ is defined as the maximum number of pages a device could deliver in a month using a multishift operation. This metric provides a comparison of robustness in relation to other Lexmark printers and MFPs. ⁴Printers are sold subject to certain license/agreement conditions. See www.lexmark.com/printerlicense for details. ⁵Actual Yield may vary based on other factors such as device speed, paper size and feed orientation, toner coverage, tray source, percentage of black-only printing and average print job complexity. ⁶Print and copy speeds measured in accordance with ISO/IEC 24734 and ISO/IEC 24735 respectively (ESAT). For more information see: www.lexmark.com/ISOspeeds. ⁷Product functions only with replacement cartridges designed for use in a specific geographical region. See www.lexmark.com/regions for more details.

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System Boundary

The study considers all phases of the life cycle, as shown below.

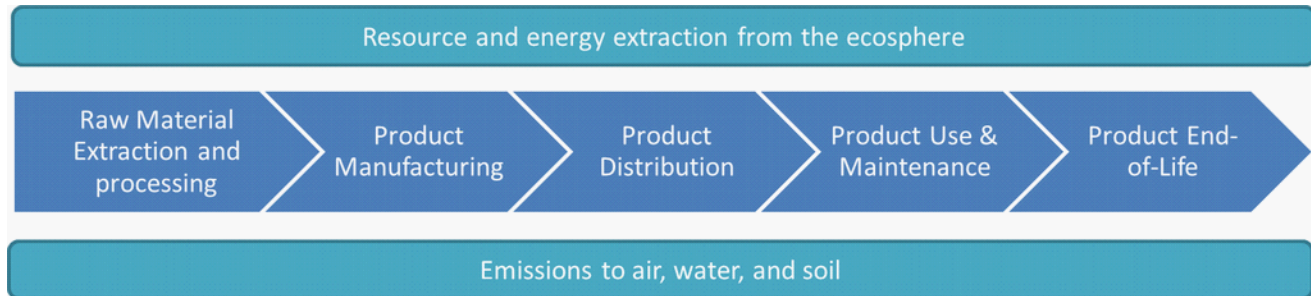


Figure 1: System Boundaries

Declaration of Basic Materials

The printer consists of mechanical, electromechanical, and electronic components. Its material composition can be described using the basic material fractions given below. Please note that the category 'Electronics' also includes all wiring.

Material	Mass (kg)
Plastics (recyclable)	6.12
Plastics (non-recyclable)	1.15
Ferrous Metals	11.9
Aluminum	0.378
Copper	0
Glass	0
Electronics	0.948
Other Materials	0.562

Table 1: Basic Material Declaration

Product Supply Chain

The printer is manufactured and assembled in Southeast China. The cartridges for the North American market are manufactured and assembled in Juarez, Mexico.

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Life Cycle Assessment Results

The following sections describe the printer's potential environmental impacts over the full printer life cycle. These represent the typical impacts for an average system sold in the North American market. All impacts are presented per functional unit of printing 1,000 images of the reference standard.

Manufacturing Material and Resources Inventory

Table 2 displays the use of material resources (kg) and of non-renewable as well as renewable primary energy demand necessary for printer manufacturing, but excludes other life cycle stages of the printer (cradle-to-gate). Likewise, material and energy consumption associated with printer packaging, cartridges, and paper is excluded here.

Use of Material Resources [kg]	
Non-Renewable	1.02E003
Renewable (excl. water)	811
Water	1.24E005
Use of Non-Renewable Primary Energy [MJ]	
Crude Oil	305
Hard Coal	925
Lignite	27.1
Natural Gas	555
Uranium	68.8
Use of Renewable Primary Energy [MJ]	
Biomass	-0.00281
Geothermal	1.48
Solar	54.7
Wind	28
Hydropower	78.7

Table 2: Use of Material and Energy Resources for Printer Manufacturing (Cradle-to-Gate)

Energy Consumption During Utilization

Based on the EnergyStar Typical Energy Consumption (TEC) test methodology, the printer is expected to have the following power consumption for an assumed average job load.

	Per 1,000 page	Per product lifetime
Energy Consumption During Utilization [kWh]	0.461	364

Table 3: At-wall power consumption during utilization

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Life Cycle Impact Assessment

The following provides an overview of the potential printer life cycle impacts with emissions classified and characterized to standard environmental impact metrics using the ReCiPe 2016 Hierarchist (H) midpoint characterization factors (v1.1).

Note that the mineral resource depletion results do not include any contributions from the paper life cycle as the AF&PA report does not allow for the conversion to ReCiPe 2016.

Ecotoxicity and human health are not included in this study, as per the PCR, due to their respective uncertainties.

LCIA results are relative expressions and do not predict impacts on category endpoints, the exceeding of thresholds, safety margins or risks.

	per 1000 pages including paper	per 1000 pages excluding paper	per printer lifetime including paper	per printer lifetime excluding paper
Global Warming Potential [kg CO ₂ eq.]	8.89E00	2.51E00	7.02E03	1.98E03
Ozone Depletion Potential [kg CFC-11 eq.]	9.30E-07	9.30E-07	7.35E-04	7.35E-04
Acidification Potential [kg SO ₂ eq.]	5.13E-03	5.13E-03	4.05E00	4.05E00
Eutrophication Potential [kg P eq.]	1.99E-05	1.99E-05	1.58E-02	1.58E-02
Fossil Fuel Depletion Potential [kg oil eq.]	9.11E-01	9.11E-01	7.20E02	7.20E02
Mineral Resource Depletion Potential [kg Cu eq.]	1.52E-02	1.52E-02	1.21E01	1.21E01

Table 3: Summary of Life Cycle Impact Assessment Results

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Interpretation of Results

Dominance Analysis

Due to the 5 year lifetime and the number of pages printed per day as established by the Energy Star Typical Energy Consumption test procedure, the use phase heavily dominates the life cycle impacts. The below tables and charts display the results of the dominance analysis for each impact category addressed in Table 3.

Global Warming Potential

	per 1000 pages including paper	per 1000 pages excluding paper	per printer lifetime including paper	per printer lifetime excluding paper
Printer	1.80E-01	1.80E-01	1.42E02	1.42E02
Lexmark use phase <LC>	8.70E00	2.32E00	6.88E03	1.84E03
Lexmark EoL phase <LC>	2.13E-03	2.13E-03	1.68E00	1.68E00

Table 4: Fossil GWP100 dominance analysis [kg CO2 equiv]

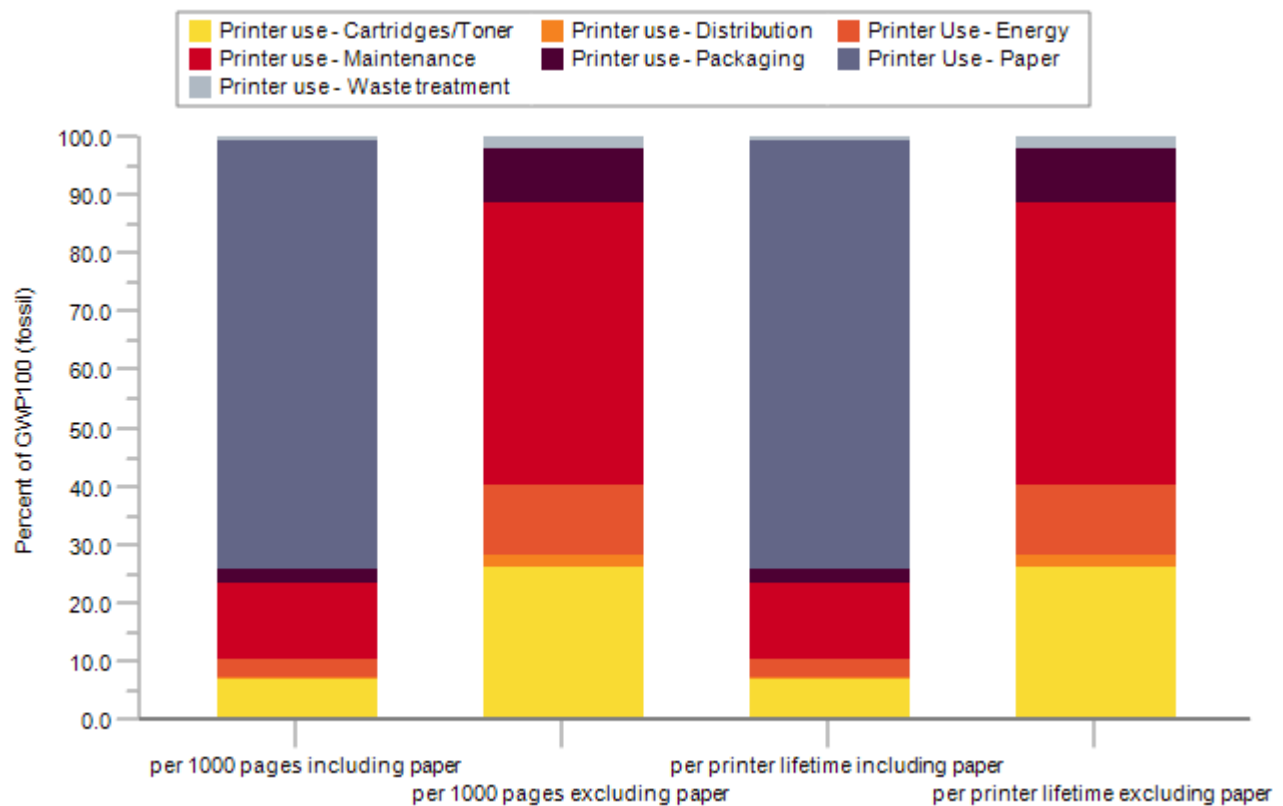


Figure 1: Fossil GWP100 dominance analysis of the use phase

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Ozone Depletion Potential

	per 1000 pages including paper	per 1000 pages excluding paper	per printer lifetime including paper	per printer lifetime excluding paper
Printer	5.56E-08	5.56E-08	4.40E-05	4.40E-05
Lexmark use phase <LC>	8.74E-07	8.74E-07	6.91E-04	6.91E-04
Lexmark EoL phase <LC>	2.07E-10	2.07E-10	1.64E-07	1.64E-07

Table 5: ODP dominance analysis [kg CFC-11 equiv]

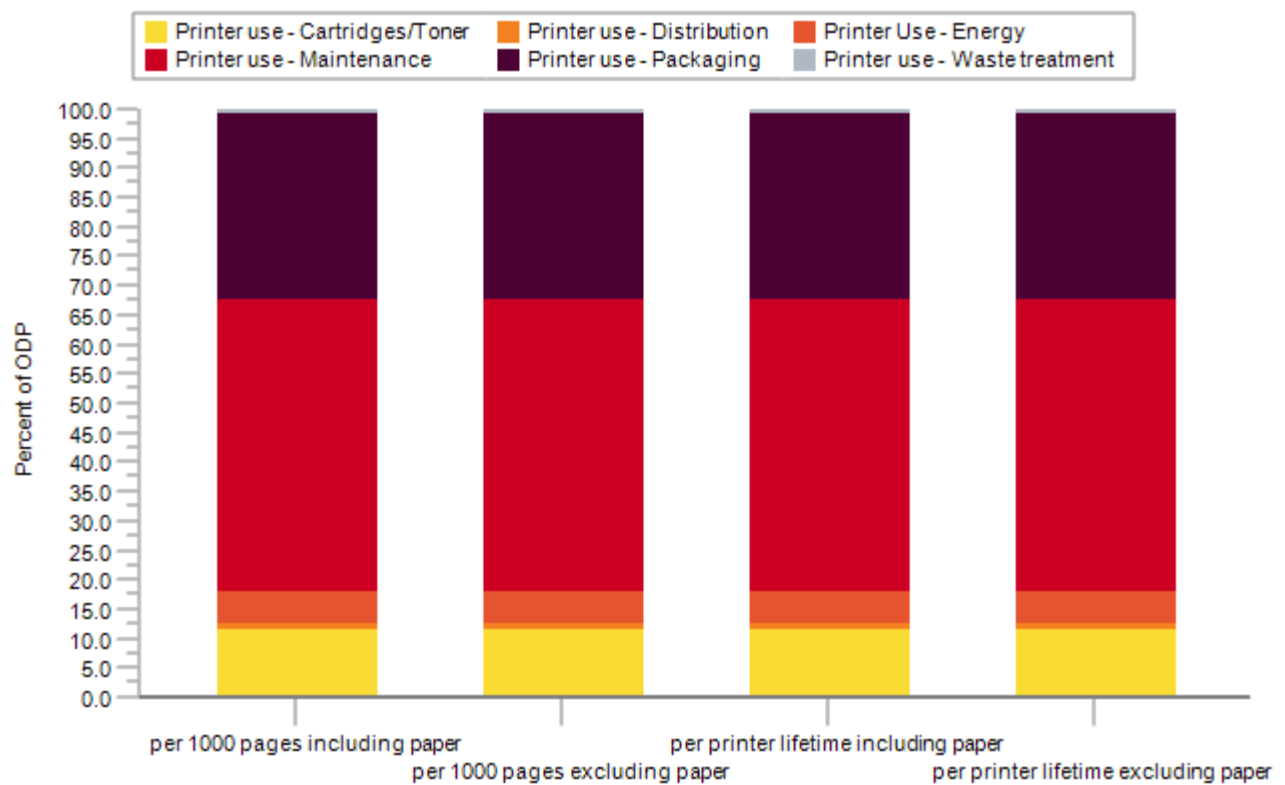


Figure 2: ODP dominance analysis of the use phase

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Acidification Potential

	per 1000 pages including paper	per 1000 pages excluding paper	per printer lifetime including paper	per printer lifetime excluding paper
Printer	8.06E-04	8.06E-04	6.37E-01	6.37E-01
Lexmark use phase <LC>	4.32E-03	4.32E-03	3.41E00	3.41E00
Lexmark EoL phase <LC>	5.77E-06	5.77E-06	4.56E-03	4.56E-03

Table 6: AP dominance analysis [kg SO₂ equiv]

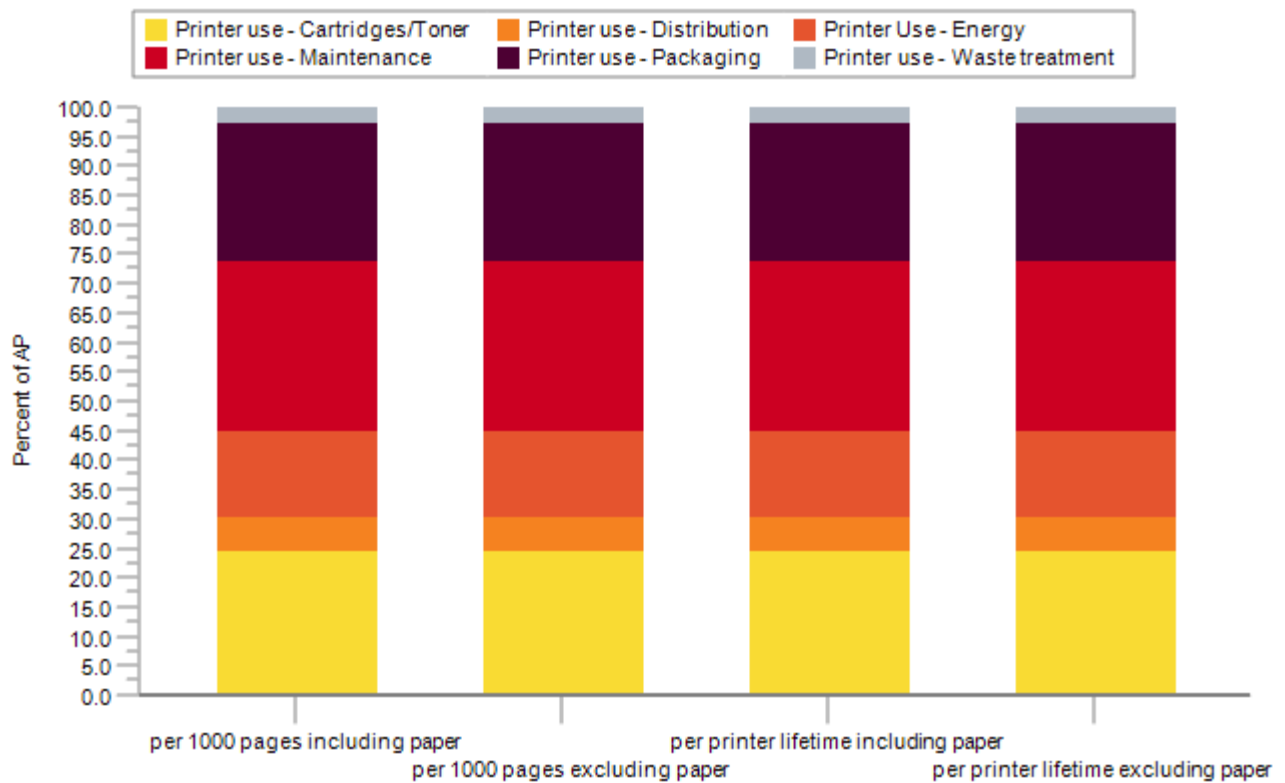


Figure 3: AP dominance analysis of the use phase

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Eutrophication Potential

	per 1000 pages including paper	per 1000 pages excluding paper	per printer lifetime including paper	per printer lifetime excluding paper
Printer	4.87E-07	4.87E-07	3.85E-04	3.85E-04
Lexmark use phase <LC>	1.94E-05	1.94E-05	1.54E-02	1.54E-02
Lexmark EoL phase <LC>	7.40E-09	7.40E-09	5.85E-06	5.85E-06

Table 8: EP dominance analysis [kg P equiv]

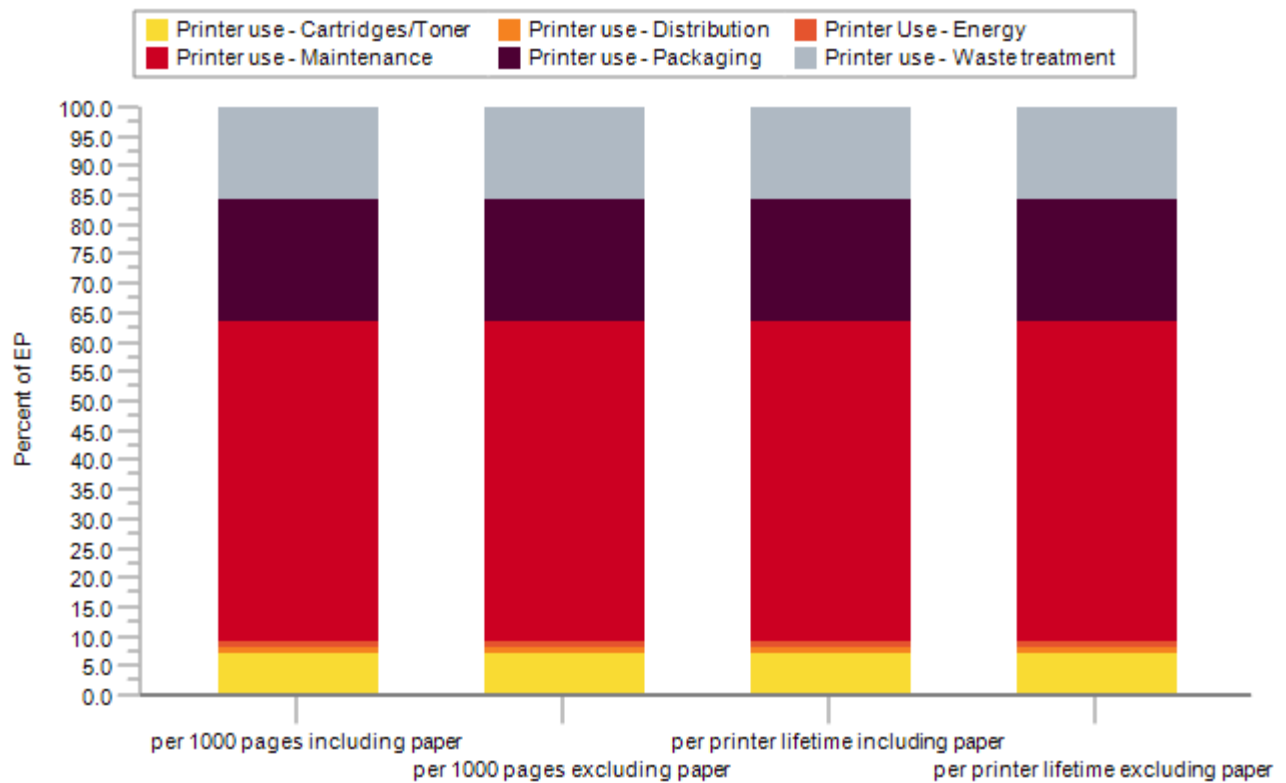


Figure 4: EP dominance analysis of the use phase

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Fossil Fuel Depletion Potential

	per 1000 pages including paper	per 1000 pages excluding paper	per printer lifetime including paper	per printer lifetime excluding paper
Printer	5.54E-02	5.54E-02	4.38E01	4.38E01
Lexmark use phase <LC>	8.55E-01	8.55E-01	6.75E02	6.75E02
Lexmark EoL phase <LC>	7.21E-04	7.21E-04	5.70E-01	5.70E-01

Table 9: Fossil fuel depletion dominance analysis [kg oil equiv]

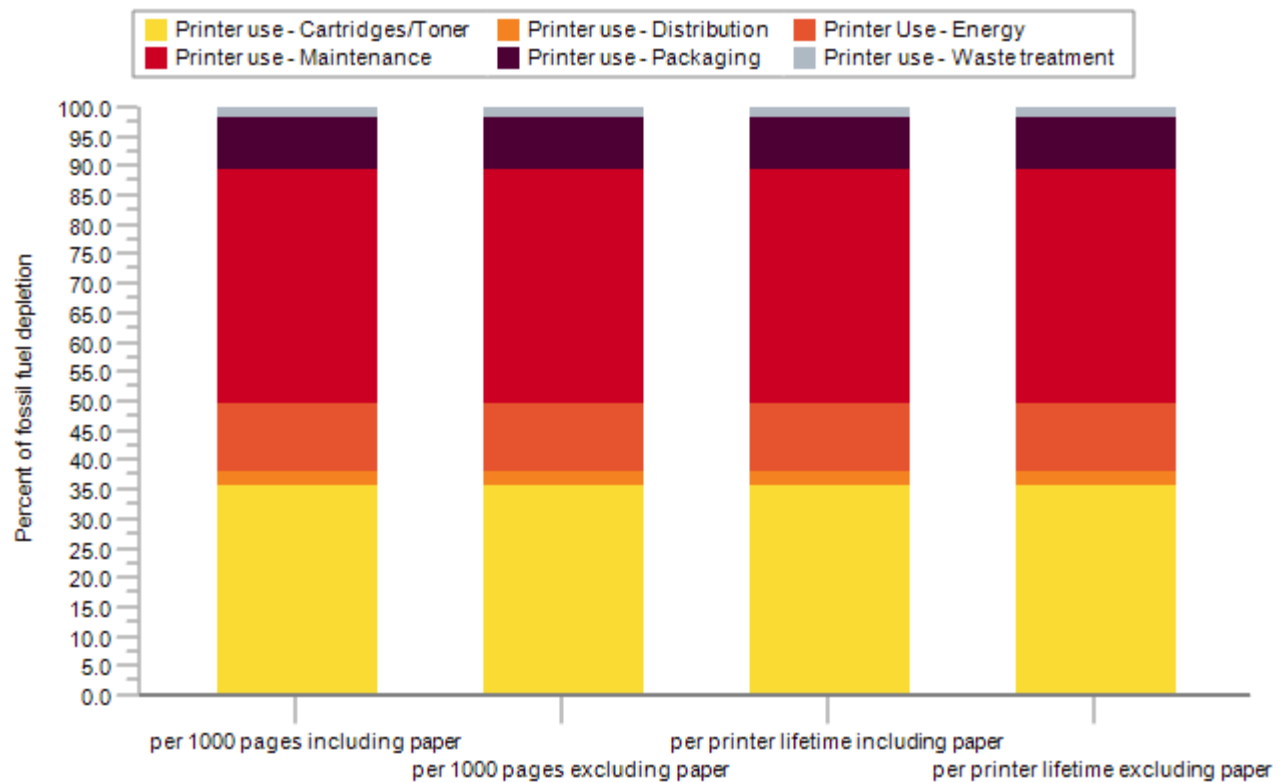


Figure 5: Fossil resource depletion dominance analysis of the use phase

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Mineral Resource Depletion Potential

	per 1000 pages including paper	per 1000 pages excluding paper	per printer lifetime including paper	per printer lifetime excluding paper
Printer	6.81E-03	6.81E-03	5.38E00	5.38E00
Lexmark use phase <LC>	8.43E-03	8.43E-03	6.66E00	6.66E00
Lexmark EoL phase <LC>	9.00E-06	9.00E-06	7.11E-03	7.11E-03

Table 10: Mineral resource depletion dominance analysis [MJ surplus]

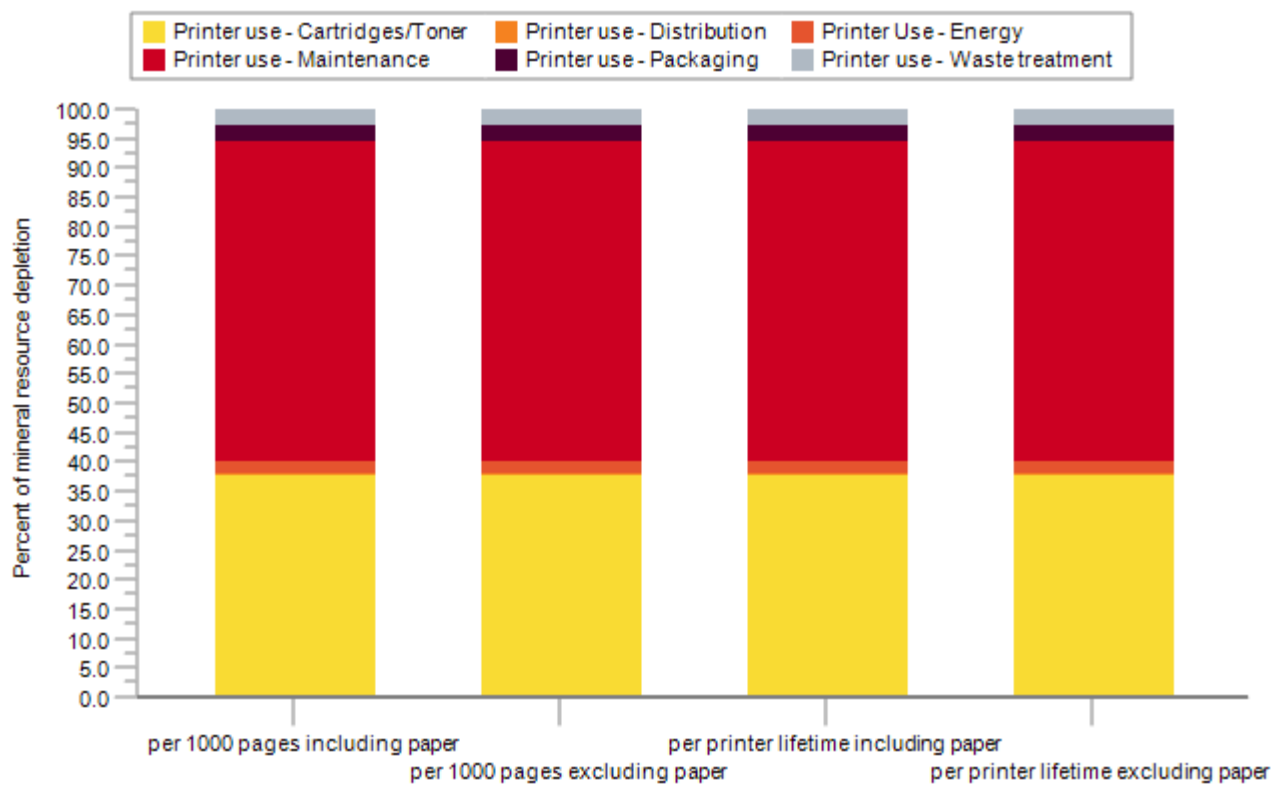


Figure 6: Mineral resource depletion dominance analysis of the use phase

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Primary Energy Demand from Renewable and Non-renewable Resources

	per 1000 pages including paper	per 1000 pages excluding paper	per printer lifetime including paper	per printer lifetime excluding paper
Printer	2.59E 00	2.59E 00	2.04E 03	2.04E 03
Lexmark use phase <LC>	8.54E 01	3.90E 01	6.75E 04	3.08E 04
Lexmark EoL phase <LC>	3.23E -02	3.23E -02	2.56E 01	2.56E 01

Table 11: PED dominance analysis [MJ]

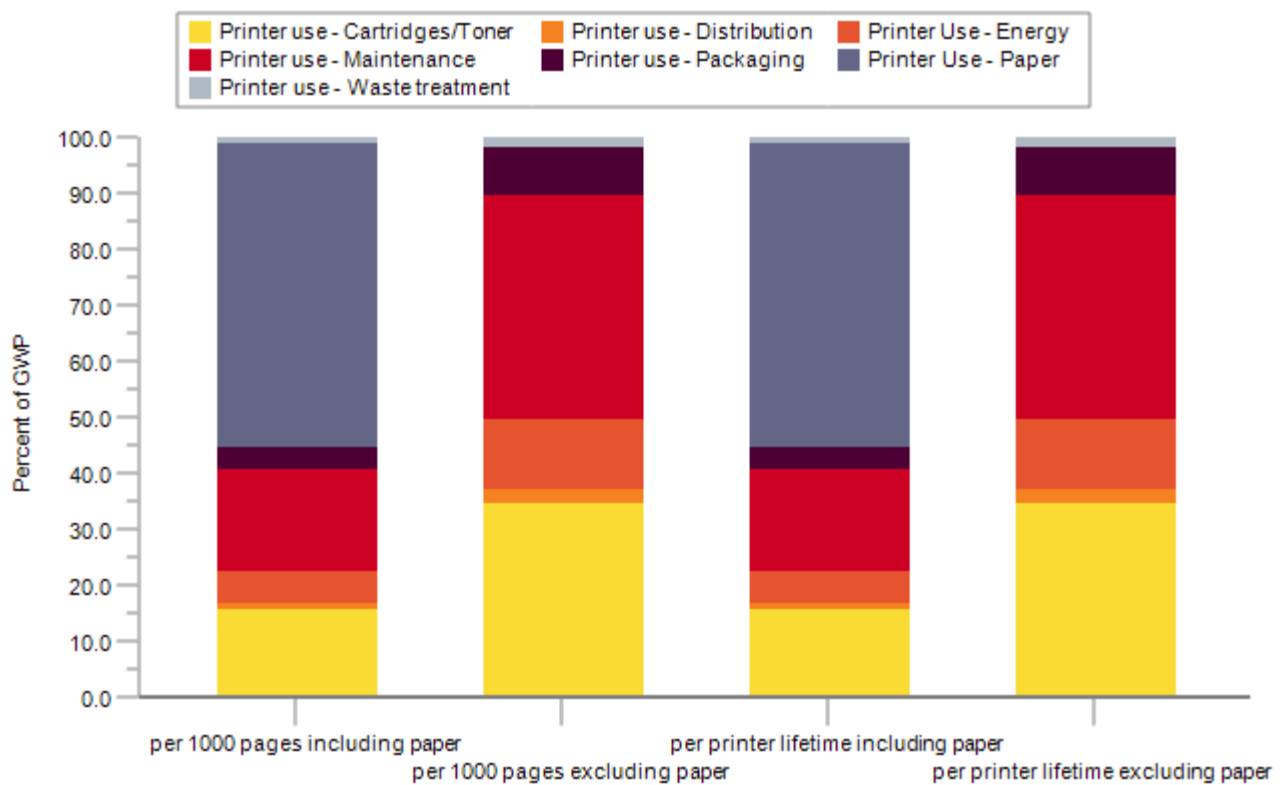


Figure 7: PED dominance analysis of the use phase

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Assumptions and Estimations

Assumptions and estimations follow the governing PCR on printing equipment. Full details are documented in the EPD's background report, which was provided for verification purposes alongside the EPD. The LCA results represent the specific printer model as sold in the North American market.

In line with the PCR, the model assumes a printer lifetime of five (5) years. The printer is modeled to print an average of 608 pages per day based on a maximum print speed of 35 images per minute. The printer further possesses an automatic mechanic duplexing feature.

Power consumption figures are based on Energy Star testing of the printer using the average job load described above. Consumables consumption is based on the market-average yield across all available cartridge capacities. In addition, market-average use of remanufactured cartridges is taken into account, as applicable.

Transportation distances to the end consumer are based on their points of origin and the population-weighted average distance to the 100 most populous cities in the continental US based on 2010 census data. The printer as well as replacement fuser kits and waste toner bottles are manufactured in China and shipped to the point of use from the distribution center near Nashville, TN, while the cartridges and the imaging unit are shipped from Ciudad Juarez, MX.

The LCI data for office paper is adopted from the uncoated, free sheet paper inventory developed by the American Forest & Paper Association (AF&PA). This paper dataset assumes that average office paper contains 4% recycled content. The mass of consumed paper is based on the US letter format and a surface weight of 75 g/m². The AF&PA data includes paper production, transportation, and End-of-Life treatment (72% recycling, 23% landfill, 5% incineration).

The End-of-Life treatment for the printer is based on the assumption that 66.7 % of the printers are returned to Lexmark for recycling, while the remainder is disposed of through local waste streams, where the metal fractions are assumed to be recycled and the remainder landfilled. The EoL cartridges are assumed to go to remanufacturing, recycling, and landfill in equal shares.

In accordance with the cut-off methodology prescribed by the governing PCR, materials sent to End-of-Life recycling are considered to cross the system boundary without any further transformation. Only the impacts associated with waste transportation and disposal are included in the results.

Description of Data and Period Under Consideration

All primary data is based on technical documentation and sales data accessed in 2018. All background data is taken from the GaBi 2018-8.6.20 Databases. No primary data is collected from the Original Equipment Manufacturer's manufacturing plant.

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Data Quality

Manufacturing data of printers and consumables is based on a combination of Bills of Material and teardown analyses and is considered to be of overall high quality with low uncertainty. Distribution from printer manufacturing to the end consumer is representative of logistical data from Lexmark and best estimates of US average shipping distances, and is of moderate quality and high uncertainty.

Printer power consumption represents measured power consumed during printer operation in accordance with the use scenario outlined in the reference PCR and is of high quality and moderate uncertainty; actual print loads may differ. Toner cartridge use is based on expected yields based on the ISO test standards for cartridge use, and is of high quality and low uncertainty. Replacement rate for consumable parts is based on part design specifications, and is of high quality and moderate uncertainty.

The disposition of the printer and consumables at End-of-Life is based on best-available information by the respective experts at Lexmark. This data is of average quality and moderate uncertainty.

Background Data

All background datasets relevant to production, power generation, transportation, and material disposal were taken from the GaBi 2018-8.6.20 Databases.

The data used for office paper is based on the data developed for the American Forest & Paper Association (AF&PA) and is representative for average North American office paper production in 2010.

The additional use of third-party background data from industry associations (e.g., worldsteel) is documented in the background report. They represent the latest LCI data as available in the GaBi 2018-8.6.20 Databases.

Allocation and Methodological Principles

No significant allocations have been considered for the production of the printer. Allocation of production or use impacts across the various functions of a multi-function system is not included (i.e., allocation of production impacts to the provision of scanning services) and the impacts from all life cycle stages are considered within the system boundaries for the printing system.

Treatment of recycled or resold material is not considered in the body of the EPD, in accordance with the cut-off methodology required by the governing PCR.

A description of all of the methodological decisions made in modeling the life cycle impacts of office paper, including descriptions of the approach to modeling carbon sequestration and paper recycling, are described in the American Forestry & Paper Association's LCA report on printing and writing papers.

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Additional Environmental Information

As required by the governing PCR, the assessment of human toxicity and ecotoxicity shall be included in this additional information section. The following metrics, which are based on the scenario 'per printer lifetime including paper' can help identify toxicity hot spots, but decision-making should also consider an exposure assessment.

	USEtox - Ecotoxicity [CTUe]	USEtox - Human toxicity (cancer) [CTUh]	USEtox - Human toxicity (non-cancer) [CTUh]
Printer use - Cartridges/Toner	8.89E -01	4.05E -08	3.95E -09
Printer use - Distribution	2.63E -01	3.34E -10	8.08E -11
Printer Use - Energy	1.33E -01	1.21E -08	4.66E -10
Printer use - Maintenance	5.07E 00	1.63E -07	3.15E -09
Printer use - Packaging	3.49E -01	2.21E -08	1.64E -07
Printer use - Waste treatment	1.47E -01	2.25E -09	2.25E -09



References and Standards

EPA (2013) ENERGY STAR Program Requirements for Imaging Equipment – Test Method (Rev. Jun-2013)
https://www.energystar.gov/sites/default/files/FINAL%20Version%202.0%20Imaging%20Equipment%20Program%20Requirements%20%28Rev%20Oct-2014%29_0.pdf

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