LASER PRINTER CX410DE

According to ISO 14040 and ISO 14044





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.

The network-ready Lexmark CX410DE Multi-function Product with a color touch-screen and a print speed as fast as 32 ppm with 2-sided printing lets you copy, scan and fax.



Laser Printer CX410de
Printers and multi-functional printing units

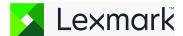
According to ISO 14040 and ISO 14044

This document is the summary of an LCA study aiming to represent the product properties, related assumption, impact categories and potential environmental impact results of Lexmark's CX410de printer product. Lexmark generates LCAs for a series of printers and multi-functional devices. The LCAs are critically reviewed by an independent expert. Each LCA is created using the same software model and workflows while changing only printer-specific data points via parameter settings. Each LCA submitted for critical review will then be accompanied by a brief technical summary of the relevant data points, as well as a methodology report.

This LCA study is carried out based on ISO 14040 and ISO 14044, and generally follows the requirements of the Product Category Rules (PCR) Guidance for the product category printers and multi-function printing units, version 2, published by UL Environment (ULE) in April 2018. This LCA study has a few deviations from the PCR, including the following:

- The PCR bases the images per day calculation on the Version 2.0 of the Imaging Equipment ENERGY STAR® Program Requirements. However, using this estimation method results in a calculated printing volume that greatly exceeds actual customer usage. In this study, the images per day calculation has been replaced by actual customer printing data, Average Monthly Print Volumes (AMPV), per product family. The new methodology aligns with realistic customer printing.
- The PCR requires using ReCiPe 2016 or TRACI 2.1 as the impact assessment methodology. This study selects TRACI 2.1 as it is currently the only impact assessment methodology framework that incorporates US average conditions to establish characterization factors (Bare, 2012) (EPA, 2012). For global warming potential, the TRACI characterization factors are not the most current, therefore it is assessed based on the current IPCC characterization factors taken from the 6th Assessment Report (IPCC, 2021) for a 100-year timeframe (GWP100) as this is currently the most commonly used metric.
- Sphera updated paper dataset is selected to replace dataset developed based on information from the American Forest and Paper Association (NCASI, 2010).

COMPANY	Lexmark		
PRODUCT SYSTEM	Laser Printer CX410de		
REFERENCE STANDARD	ISO 14044: Environmental management— Life cycle assessment— Requirements and quidelines. Geneva: International Organization for Standardization.		
DATE OF ISSUE	1/6/2025		
	Product definition		
	Information about basic material and the material's origin		
	Description of the product's manufacture		
CONTENTS OF THE REPORT	Indication of product processing		
	Information about the in-use conditions		
	Life cycle assessment results		
	Testing results and critical review		
This life cycle assessment was	s independently reviewed in		
accordance with ISO 14044 b	, ,		
	Thomas Gloria, Indust. Ecology Consultants		



Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

Product Description

Product Type	Color Laser Printer
Printer Model	CX410de
Maximum Print Speed	32 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	10/16/2012
Product Specifications	http://www.lexmark.com/en_US/products/series/printer-and-multifunction/finder.shtml
Functional Unit	The functional units has been defined as (1) a 1,000 page simplex job; (2) lifetime page simplex job
Product Characterization	A multi-function color electrophotography printer that includes printing, copying, scanning and faxing in one unit. The printer fuses different colors to a medium (such as paper) to create hard copy images from electronic or hard copy originals. Network connectivity allows for printing, scanning or faxing to/from other locations. 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.



Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

Technical Data

Product specifications	Lexmark CX410e	Lexmark CX410de	Lexmark CX410dte		
Printing					
Display	ı	exmark e-Task 4.3-inch (10.9 cm) color touch	n screen		
Print Speed: Up to ⁶		Black: 32 ppm / Color: 32 ppm			
Time to First Page: As fast as	Black: 10.5 seconds / Color: 11.5 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	Stand	Standard: 512 MB / Maximum: 2560 MB / Dual Core, 0.8 MHz			
Hard Disk		Not Available			
Recommended Monthly Page Volume ²		800 - 6000 pages			
Maximum Monthly Duty Cycle: Up to ²		75000 pages per month			
Copying					
Copy Speed: Up to ⁶		Black: 32 cpm / Color: 32 cpm			
Time to First Copy: As fast as		Black: 10.8 seconds / Color: 11.6 second	ds		
Scanning		·			
Scanner Type / ADF Scan		Flatbed scanner with ADF / RADF (Reversing	Dunlex)		
A4/Ltr Duplex Scan Speed: Up to		: 13 / 14 sides per minute / Color: 13 / 14 side	• •		
A4/Ltr Simplex Scan Speed: Up to		30 / 32 sides per minute / Color: 30 / 32 side	•		
ADF Paper Input Capacity: Up to	- District	50 pages 20 lb or 75 gsm bond	as per minote		
Faxing		50 pages 20 10 01 75 gs.11 20112			
Modem Speed	ITU T.30, V.34 Half-Duplex, 33.6 Kbps				
Supplies ⁷		110 1.30, V.34 11dil-Bopiex, 33.0 Kbps			
Laser Cartridge Yields (up to) ¹	1 000-page Black and Color (CMVK) Cartridge	s 2 000-page Color (CMV) Cartridges 2 500	-page Black Cartridge 3 000-page Color (CMV) High		
East carriage ricias (op to)	Yie	1,000-page Black and Color (CMYK) Cartridges, 2,000-page Color (CMY) Cartridges, 2,500-page Black Cartridge, 3,000-page Color (CMY) High Yield Cartridges, 4,000-page Black High Yield Cartridge			
Photoconductor Estimated Yield: Up to ⁵	40,000 pages, base	ed on 3 average letter/A4-size pages per pr	int job and ~ 5% coverage		
Cartridge(s) Shipping with Product ¹	1,400-page E	Black and Color (CMYK) Starter Return Progra	am Toner Cartridges		
Paper Handling					
Included Paper Handling	250-Sheet Input, 150-Sheet Output Bin, Single- Sheet Manual Feed	250-Sheet Input, 150-Sheet Output Bin, Integrated Duplex, Single-Sheet Manual Feed	250-Sheet Input, 550-Sheet Duo Tray with 100-Shee Feeder, 150-Sheet Output Bin, Integrated Duplex, Single-Sheet Manual Feed		
Optional Paper Handling	550-Sheet Tray, 550-Sheet Duo	Tray with 100-Sheet Feeder	550-Sheet Tray		
Paper Input Capacity: Up to	Standard: 250+1 pages 20 lb or 75 gsm bond bond	/ Maximum: 1450+1 pages 20 lb or 75 gsm	Standard: 900+1 pages 20 lb or 75 gsm bond / Maximum: 1450+1 pages 20 lb or 75 gsm bond		
Paper Output Capacity: Up to	Standard: 150 pag	ges 20 lb or 75 gsm bond / Maximum: 150 pa	ges 20 lb or 75 gsm bond		
Media Types Supported	Card Stock, Paper Labels, Plain Paper, Transp Guide	arencies, Refer to the Card Stock & Label a.	Card Stock, Envelopes, Paper Labels, Plain Paper, Transparencies, Refer to the Card Stock & Label Guide.		
Media Sizes Supported	A4, A5, Executive, Folio, JIS-B5, Legal, Letter, Universal, Oficio 10 Envelope, 7 3/4 Envelope, 9 Envelope, C5 Envelope, DL Envelope JIS-B5, Legal, Letter, Statement, Un				
General Information⁴					
Standard Ports	USB 2.0 Specification Hi-Speed Certified (Type	B), Gigabit Ethernet (10/100/1000). Front U	SB 2.0 Specification Hi-Speed Certified port (Type A)		
Optional Network Ports	, , , , , ,	MarkNet N8352 802.11b/g/n Wireless			
Noise Level: Operating		Print: 49 dBA / Copy: 50 dBA / Scan: 50 d			
Specified Operating Environment	Temperature: 16 to 32°C (60 to	90°F), Humidity: 8 to 80% Relative Humidity,			
Limited Warranty - See Statement of Limited Warranty		1-Year Onsite Service, Next Business Do			
Size (in H x W x D) / Weight (lb.)	18.44 x 17.48 x 21.9	9 in. / 60.25 lb.	23.63 x 17.48 x 21.99 in. / 69.55 lb.		

'Average continuous black or continuous composite CMY declared cartridge yield up to this number of standard pages in accordance with ISO/IEC 19798. **Recommended Monthly Page Volume" 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, pager loading intervals, speed, and typical customer usage. **The month using a multishift operation.

This metric provides a comparison of robustness in relation to other Lexmark printers and MFPs. *Printers are sold subject to certain license/agreement conditions. See www.lexmark.com/printerlicense for details. **Actual Yield may vary based on other factors such as device speed, pager size and feed orientation, toner coverage, tray source, percentage of black-only printing and average print job complexity. *Print and copy speeds measured in accordance with ISO/IEC 24735 respectively (ESAT). For more information see: www.lexmark.com/ISOspeeds. *Product functions only with replacement cartridges designed for use in a specific geographical region. See www.lexmark.com/regions for more details.



Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

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)	8.47
Plastics (non-recyclable)	2.4
Ferrous Metals	12.5
Aluminum	0.379
Copper	0.0729
Glass	1.09
Electronics	3.4
Other Materials	0.12
Total	28.4

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.



Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

Life Cycle Assessment Results

The following sections describe the printer's cradle-to-gate resource use and 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 units.

Printer Manufacturing Resources Use

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	992			
Renewable (excl. water)	2.3E003			
Water	4.24E009			
Use of Non-Renewable Prima	ry Energy [MJ]			
Crude Oil	546			
Hard Coal	1.21E003			
Lignite	51.9			
Natural Gas	1.06E003			
Uranium	207			
Use of Renewable Primary En	ergy [MJ]			
Biomass	0.00167			
Geothermal	9.34			
Solar	256			
Wind	124			
Hydropower	134			

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

Energy Consumption During Utilization

Based on the ENERGY STAR® 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]	13.6	676

Table 3: At-wall power consumption during utilization



Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

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 based on TRACI 2.1 method. Global warming potential is evaluated based on IPCC AR6. Ecotoxicity and human toxicity are not included in this study, 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	per 1000	per printer	per printer
	pages including paper	pages excluding	lifetime including paper	lifetime excluding
		paper		paper
IPCC AR6 GWP 100, excl biogenic CO2 [kg CO2 eq.]	1.70E01	1.39E01	8.42E02	6.88E02
AP [kg SO2 eq.]	6.08E-02	4.64E-02	3.01E00	2.30E00
EP [kg N eq.]	1.01E-02	2.65E-03	5.02E-01	1.31E-01
ODP [kg CFC 11 eq.]	1.55E-08	1.55E-08	7.69E-07	7.69E-07
RDP [MJ surplus energy]	2.33E01	1.92E01	1.16E03	9.50E02
SFP [kg O3 eq.]	8.64E-01	5.84E-01	4.28E01	2.89E01

Table 3: Summary of Life Cycle Impact Assessment Results



Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

Interpretation of Results

Dominance Analysis

Due to the 5 year lifetime and the number of pages printed per day based on the actual customer printing information, the use phase with paper 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. The first row in each table, labeled Printer, is the printer manufacturing phase with includes raw material extraction and manufacturing.

Global Warming Potential

	per 1000 pages including	per 1000 pages excluding	per printer lifetime	per printer lifetime
	paper	paper	including paper	excluding paper
Printer	4.27E00	4.27E00	2.12E02	2.12E02
Use phase <lc></lc>	1.27E01	9.57E00	6.28E02	4.74E02
EoL phase <lc></lc>	5.01E-02	5.01E-02	2.48E00	2.48E00

Table 4: GWP100 dominance analysis [kg CO2 equiv]

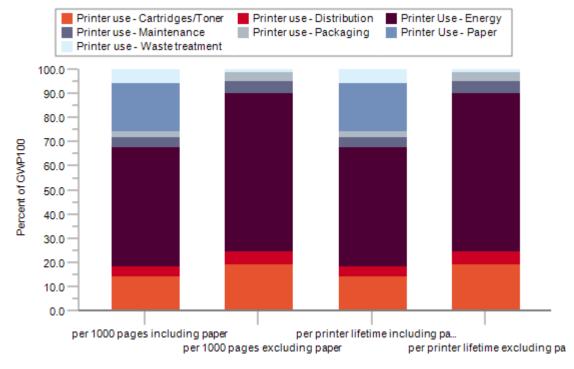


Figure 1: GWP100 dominance analysis of the life cycle stage

Total lifetime distribution: 56.07 kg CO2 equiv



Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

Ozone Depletion Potential

	per 1000 pages including paper			per printer lifetime excluding paper
Printer	1.84E-09	1.84E-09	9.13E-08	9.13E-08
Use phase <lc></lc>	1.37E-08	1.37E-08	6.78E-07	6.78E-07
EoL phase <lc></lc>	3.53E-16	3.53E-16	1.75E-14	1.75E-14

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

Acidification Potential

	per 1000 pages including	per 1000 pages excluding	per printer lifetime	per printer lifetime
	paper	paper	including paper	excluding paper
Printer	1.78E-02	1.78E-02	8.82E-01	8.82E-01
Use phase <lc></lc>	4.28E-02	2.83E-02	2.12E00	1.40E00
EoL phase <lc></lc>	2.43E-04	2.43E-04	1.20E-02	1.20E-02

Table 6: AP dominance analysis [kg SO₂ equiv]

Eutrophication Potential

	per 1000 pages including	per 1000 pages excluding	per printer lifetime	per printer lifetime
	paper	paper	including paper	excluding paper
Printer	1.02E-03	1.02E-03	5.05E-02	5.05E-02
Use phase <lc></lc>	9.09E-03	1.61E-03	4.50E-01	7.97E-02
EoL phase <lc></lc>	2.10E-05	2.10E-05	1.04E-03	1.04E-03

Table 7: EP dominance analysis [kg N equiv]

Resource Depletion Potential (fossil fuel)

	per 1000 pages including paper			per printer lifetime excluding paper
Printer	5.07E00	5.07E00	2.51E02	2.51E02
Use phase <lc></lc>	1.82E01	1.40E01	9.00E02	6.94E02
EoL phase <lc></lc>	9.30E-02	9.30E-02	4.61E00	4.61E00

Table 8: RDP dominance analysis [MJ surplus energy]



Laser Printer CX410de

Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

Smog Formation Potential

	per 1000 pages including	per 1000 pages excluding	per printer lifetime	per printer lifetime
	paper	paper	including paper	excluding paper
Printer	1.98E-01	1.98E-01	9.78E00	9.78E00
Use phase <lc></lc>	6.61E-01	3.81E-01	3.27E01	1.89E01
EoL phase <lc></lc>	5.55E-03	5.55E-03	2.75E-01	2.75E-01

Table 9: SFP dominance analysis [kg O₃ equiv]

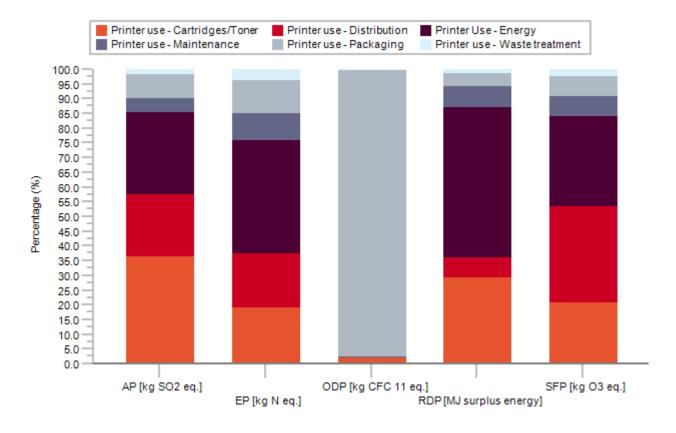


Figure 2: Contribution analysis of the use phase (per 1000 pages excluding paper)

Assumptions and Estimations

Assumptions and estimations are documented in the methodology report, which was provided for critical review purposes alongside this document. The LCA results represent the specific printer model as sold in the North American market.

The model assumes a printer lifetime of five (5) years. The printer is modeled to print an average pages per day



Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

based on actual customer printing information. The printer further possesses an automatic mechanical duplexing feature.

Power consumption figures are based on ENERGY STAR® testing of the printer using the average job load described above. Consumables rate of 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 2020 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 Jeffersonville, IN, while the cartridges and the imaging unit are shipped from Ciudad Juarez, MX to Jeffersonville, IN.

The paper dataset developed by Sphera represents European and used as proxy in lieu of current US data.

The End-of-Life treatment for the printer is based on the assumption that 90 % of the printers are either recycled or remanufactured, 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 be split as such: 80% to remanufacturing or recycling, and 20% landfill.

In accordance with the cut-off methodology, 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 2024. All background data is taken from the MLC 2024-10.9.0.31 Databases. No primary data is collected from the Original Equipment Manufacturer's manufacturing plant.



Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

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. The electricity consumed is calculated based on TEC specification, and is of high quality and moderate uncertainty. 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 Sphera's MLC 2024-10.9.0.31 Databases.

The additional use of third-party background data from industry associations (e.g., worldsteel) is documented in the methodology report. They represent the latest LCI data as available in the MLC 2024-10.9.0.31 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 LCA, in accordance with the cut-off methodology.



Laser Printer **CX410de**Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

References and Standards

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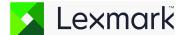
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ULE (2018) Product Category Rules for preparing an environmental product declaration (EPD) for printers and multi-function printing units (v2.0). UL Environment. Washington, DC. Expired in April, 2023.



Laser Printer CX410de Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

Contact Information



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Laser Printer CX410de
Printers and multi-functional printing units

According to ISO 14040 and ISO 14044

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Dr. Gloria is a certified Life Cycle Professional (LCACP) through the American Center for Life Cycle Assessment.



LCA Model Evaluated: CX410de

Equivalent Models: CX417de, CX410e, CX410dte, XC2130

Life Cycle Assessments (LCA) are in accordance with ISO 14040 and ISO 14044. Life Cycle Assessments provide information on a number of environmental impacts of products over their life cycle. LCAs may be used equivalently for programs with multiple configurations if the differences in configurations are evaluated and determined to be negligible to the global warming impact. Printer configurations with the same parameters for mass, typical electricity consumption (TEC), rated pages per minute are considered equivalent. In many cases, several configurations are identical, but the model names are different among various sales channels. For printer configurations that have slight differences, they are determined to be equivalent only when those differences are considered to have a negligible contribution to the LCA results.

Accuracy of Results and Comparability: LCAs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. LCAs 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. LCAs from different programs may not be comparable.

Exclusions: LCAs 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. LCAs 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.

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