



## Environmental Product Declaration

IN ACCORDANCE WITH ISO 14025:2006

Program Operator: Smart EPD®

[www.smartepd.com](http://www.smartepd.com)



SmartEPD-2025-007-0462-01

HP LaserJet Enterprise Flow MFP M631h / M634h / M632z / M633z / M635z / M636z /  
E62565h / E62565z / E62575z / E62665h / E62665z / E62675z / HP LaserJet

Enterprise MFP M631dn / M631z / M634dn / M634z / M632fht / M632h / M633fh /

| Date of Issue | Expiration date | Last updated |
|---------------|-----------------|--------------|
| Apr 16, 2025  | Apr 16, 2030    | Apr 16, 2025 |

M635fht / M635h / M636h / HP LaserJet Managed MFP E62555dn / E62655h /  
E62565hs / E62665hs

Refer to the EPD Library at [www.smartepd.com](http://www.smartepd.com) for the latest EPD listing information





# General Information

HP Inc.

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|                             |                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:               | HP LaserJet Enterprise Flow MFP M631h / M634h / M632z / M633z / M635z / M636z / E62565h / E62565z / E62575z / E62665h / E62665z / E62675z / HP LaserJet Enterprise MFP M631dn / M631z / M634dn / M634z / M632fht / M632h / M633fh / M635fht / M635h / M636fh / HP LaserJet Managed MFP E62555dn / E62655dn / E62565hs / E62665hs |
| Functional Unit:            | 1 unit                                                                                                                                                                                                                                                                                                                           |
| Declaration Number:         | SmartEPD-2025-007-0462-01                                                                                                                                                                                                                                                                                                        |
| Date of Issue:              | April 16, 2025                                                                                                                                                                                                                                                                                                                   |
| Expiration:                 | April 16, 2030                                                                                                                                                                                                                                                                                                                   |
| Last updated:               | April 16, 2025                                                                                                                                                                                                                                                                                                                   |
| EPD Scope:                  | Cradle to grave<br>A1 - A3, A4, B1, C2, C4                                                                                                                                                                                                                                                                                       |
| Market(s) of Applicability: | North America                                                                                                                                                                                                                                                                                                                    |

# General Organization Information

We are a technology company born of the belief that companies should do more than just make a profit. They should make the world a better place. Our efforts in climate action, human rights, and digital equity prove that we are doing everything in our power to make it so. With over 80 years of actions that prove our intentions, we have the confidence to envision a world where innovation drives extraordinary contributions to humanity. And our technology – a product and service portfolio of personal systems, printers, and 3D printing solutions – was created to inspire this meaningful progress. We know that thoughtful ideas can come from anyone, anywhere, at any time. And all it takes is one to change the world.

Further information can be found at: <https://www.hp.com/us-en/hp-information.html>

# Limitations, Liability and Ownership

Environmental declarations from different programs (ISO 14025) may not be comparable. Comparison of the environmental performance of products using EPD information shall be based on the product's use and impacts at the building level, and therefore EPDs may not be used for comparability purposes when not considering the whole building life cycle. EPD comparability is only possible when all stages of a life cycle have been considered. However, variations and deviations are possible. Example of variations: Different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared. The EPD owner has sole ownership, liability, and responsibility for the EPD.

# Reference Standards

|              |                                                                            |
|--------------|----------------------------------------------------------------------------|
| Standard(s): | ISO 14025:2006                                                             |
| Core PCR:    | SuMPO Product Category Rule for Imaging Input and/or Output Equipment v.08 |



|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
|                                | Date of issue: September 01, 2023                           |
|                                | Valid until: September 01, 2028                             |
| Sub-category PCR review panel: | Contact Smart EPD for more information.                     |
| General Program Instructions:  | Smart EPD General Program Instructions v.1.0, November 2022 |

## Verification Information

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| LCA Author/Creator:   | Sin Che Tham                                                                           |
|                       | HP Inc.                                                                                |
|                       | info@hp.com                                                                            |
| EPD Program Operator: | Smart EPD                                                                              |
|                       | info@smartepd.com                                                                      |
|                       | www.smartepd.com                                                                       |
|                       | 585 Grove St., Ste. 145, Herndon, VA 20170, USA                                        |
| Verification:         | Independent critical review of the LCA and data, according to ISO 14044 and ISO 14071: |
|                       | Juanita Barrera R    juanita@earthshiftglobal.com                                      |
|                       | Independent external verification of EPD, according to ISO 14025 and reference PCR(s): |
|                       | Juanita Barrera R    juanita@earthshiftglobal.com                                      |

External

External

## Product Information

|                         |                  |
|-------------------------|------------------|
| Functional Unit:        | 1 unit           |
| Mass:                   | 33.2 kg          |
| Reference Service Life: | 5 Years          |
| Product Specificity:    | Product Average  |
|                         | Product Specific |

## Product Description

Color multi-function printer

Further information can be found at: <https://www.hp.com/us-en/shop/pdp/hp-laserjet-enterprise-flow-mfp-m631h>

## Product Specifications

|                               |                                             |
|-------------------------------|---------------------------------------------|
| Product SKU(s):               | T3U44A,T3U43A,T3U64A                        |
| Product Classification Codes: | UNSPSC - 43212110 - Multi-function printers |
| Device type:                  | Multifunction Device                        |
| Method:                       | Electrophotography (EP)                     |



Color: Color  
 Printing speed: 75 ppm  
 Options:   
     ✓ Print  
     ✓ Copy  
     ✓ Fax

## Material Composition

| Material/Component Category                     | Origin | % Mass |
|-------------------------------------------------|--------|--------|
| Metals                                          | Asia   | 35     |
| Plastics                                        | Asia   | 43     |
| Packaging (Corrugate, Wood & Plastics)          | Asia   | 12     |
| Glass (non-CRT)                                 | Asia   | 4      |
| EU WEEE Directive (Separate Annex II Materials) | Asia   | 5      |
| Wires/Cables                                    | Asia   | <1     |
| Other Miscellaneous Materials                   | Asia   | 1      |

| Biogenic Carbon Content                           | kg C per unit |
|---------------------------------------------------|---------------|
| Biogenic carbon content in product                | 0             |
| Biogenic carbon content in accompanying packaging | 0             |

| Hazardous Materials                                                          |
|------------------------------------------------------------------------------|
| No regulated hazardous or dangerous substances are included in this product. |

## EPD Data Specificity

Primary Data Year: 2017  
 Manufacturing Specificity:   
     ✗ Industry Average  
     ✓ Manufacturer Average  
     ✗ Facility Specific

Averaging:  
 Averaging was not conducted for this EPD



## System Boundary

|                                         |    |                                     |    |
|-----------------------------------------|----|-------------------------------------|----|
| Production                              | A1 | Raw material supply                 | ✓  |
|                                         | A2 | Transport                           | ✓  |
|                                         | A3 | Manufacturing                       | ✓  |
| Construction                            | A4 | Transport to site                   | ✓  |
|                                         | A5 | Assembly / Install                  | ND |
| Use                                     | B1 | Use                                 | ✓  |
|                                         | B2 | Maintenance                         | ND |
|                                         | B3 | Repair                              | ND |
|                                         | B4 | Replacement                         | ND |
|                                         | B5 | Refurbishment                       | ND |
|                                         | B6 | Operational Energy Use              | ND |
|                                         | B7 | Operational Water Use               | ND |
| End of Life                             | C1 | Deconstruction                      | ND |
|                                         | C2 | Transport                           | ✓  |
|                                         | C3 | Waste Processing                    | ND |
|                                         | C4 | Disposal                            | ✓  |
| Benefits & Loads Beyond System Boundary | D  | Recycling, Reuse Recovery Potential | ND |

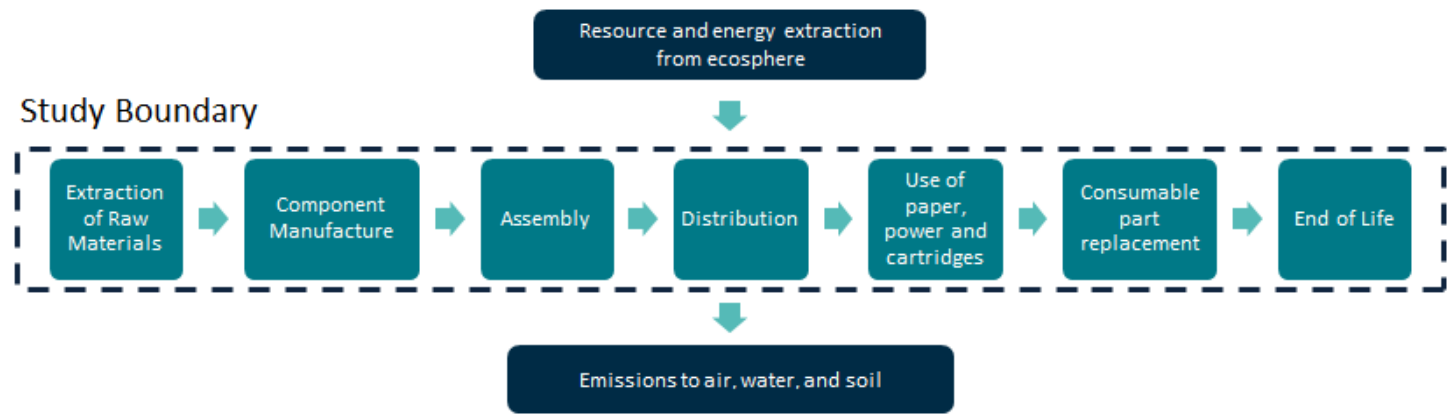
Note:

ND = Module not declared

## Plants

Asia Manufacturing Operations 1150 Depot Road, Singapore 109673

Product Flow Diagram



Software And Database

|                             |                                    |               |
|-----------------------------|------------------------------------|---------------|
| LCA Software:               | GaBi v. 10.0                       |               |
| LCI Foreground Database(s): | GaBi Professional Database v. 2020 | North America |
| LCI Background Database(s): | GaBi Professional Database v. 2020 | North America |

A foreground LCI database is the database used to model the primary, site-specific data collected for this EPD. A background LCI database is the database used to model generic or non-specific data.

Data Quality

The LCA data for office paper is based on the uncoated freesheet paper developed by the American Forest & Paper Association, and models paper production, transportation, and end-of-life treatment. This paper dataset assumes that average office paper contains 4% recycled content and is recycled 72% of the time. A paper weight of 20 lb. (75 g/m2) is assumed when paper (rather than an alternative material) is the chosen printing media. A default distance of 100 km by truck is set to account for the end-of-life transportation, from device use location to waste management facilities.

Life Cycle Module Description

This document describes the lifetime use of the printer, including production of all materials and components, assembly in the final configuration, delivery to the customer, use of the product, and expected end-of-life scenarios. All packaging, in-box accessories, and all consumables (paper, cartridges, and replacement parts) are considered, including associated end-of-life treatment. Printing is considered the main function of the product, and the impacts of other functions (scanning, copying, etc.) are not considered.

LCA Discussion

Allocation Procedure

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. The study does not incorporate any reused products or parts. 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 and Paper Association report on printing and writing papers.

## Cut-off Procedure

Credits for end-of-life material and energy recovered are excluded from the inventory, following the cut-off approach.

## Renewable Electricity

Energy Attribute Certificates (EACs) such as ✗ No  
Renewable Energy Certificates (RECs) or Power  
Purchase Agreements (PPAs) are included in the  
baseline reported results:

## Results

### Environmental Impact Assessment Results

IPCC AR5 GWP 100, ReCiPe 2016 v1.1

per 1 unit of product.

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

| Impact Category     | Unit         | Method           | A1 - A3 | A4      | B1      | C2      | C4       | Total    |
|---------------------|--------------|------------------|---------|---------|---------|---------|----------|----------|
| GWP-total           | kg CO2 eq    | IPCC AR5 GWP 100 | 1.19e+2 | 4.71e+1 | 2.75e+4 | 5.76e-1 | -5.23e+1 | 2.76e+4  |
| ODP                 | kg CFC-11 eq | ReCiPe 2016 v1.1 | 2.07e+4 | 3.10e+4 | 9.41e+3 | 0       | -6.19e+3 | 5.49e+4  |
| AP                  | kg SO2 eq    | ReCiPe 2016 v1.1 | 3.98e-1 | 1.04e+4 | 1.72e+2 | 1.95e+4 | -3.35e+4 | -3.43e+3 |
| EP-fw               | kg P eq      | ReCiPe 2016 v1.1 | 5.39e+3 | 3.29e+4 | 5.79e+0 | 0       | -1.23e+4 | 2.60e+4  |
| ADP-fossil          | kg oil eq    | ReCiPe 2016 v1.1 | 3.91e+1 | 1.71e+1 | 4.42e+3 | 0       | 1.88e+1  | 4.50e+3  |
| ADP-minerals&metals | kg Cu eq     | ReCiPe 2016 v1.1 | 1.70e+1 | 9.38e+3 | 2.21e+2 | 0       | -2.98e+1 | 9.59e+3  |

Note:

Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

Abbreviations:

GWP = Global Warming Potential, 100 years (may also be denoted as GWP-total, GWP-fossil (fossil fuels), GWP-biogenic (biogenic sources), GWP-luluc (land use and land use change)), ODP = Ozone Depletion Potential, AP = Acidification Potential, EP = Eutrophication Potential, SFP = Smog Formation Potential, POCP = Photochemical oxidant creation potential, ADP-Fossil = Abiotic depletion potential for fossil resources, ADP-Minerals&Metals = Abiotic depletion potential for non-fossil resources, WDP = Water deprivation potential, PM = Particular Matter Emissions, IRP = Ionizing radiation, human health, ETP-fw = Eco-toxicity (freshwater), HTP-c = Human toxicity (cancer), HTP-nc = Human toxicity (non-cancer), SQP = Soil quality index.

Comparisons cannot be made between product-specific or industry average EPDs at the design stage of a project, before a building has been specified. Comparisons may be made between product-specific or industry average EPDs at the time of product purchase when product performance and specifications have been established and serve as a functional unit for comparison. Environmental impact results shall be converted to a functional unit



basis before any comparison is attempted. Any comparison of EPDs shall be subject to the requirements of ISO 21930 or EN 15804. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries. EPDs are not comparative assertions and are either not comparable or have limited comparability when they have different system boundaries, are based on different product category rules or are missing relevant environmental impacts. Such comparison can be inaccurate, and could lead to erroneous selection of materials or products which are higher-impact, at least in some impact categories.

## Resource Use Indicator

per 1 unit of product.

| Indicator | Unit | A1 - A3 | A4      | B1      | C2 | C4       | Total   |
|-----------|------|---------|---------|---------|----|----------|---------|
| FW        | m3   | 4.60e+1 | 2.03e+0 | 4.89e+3 | 0  | -2.90e+1 | 4.91e+3 |

### Note:

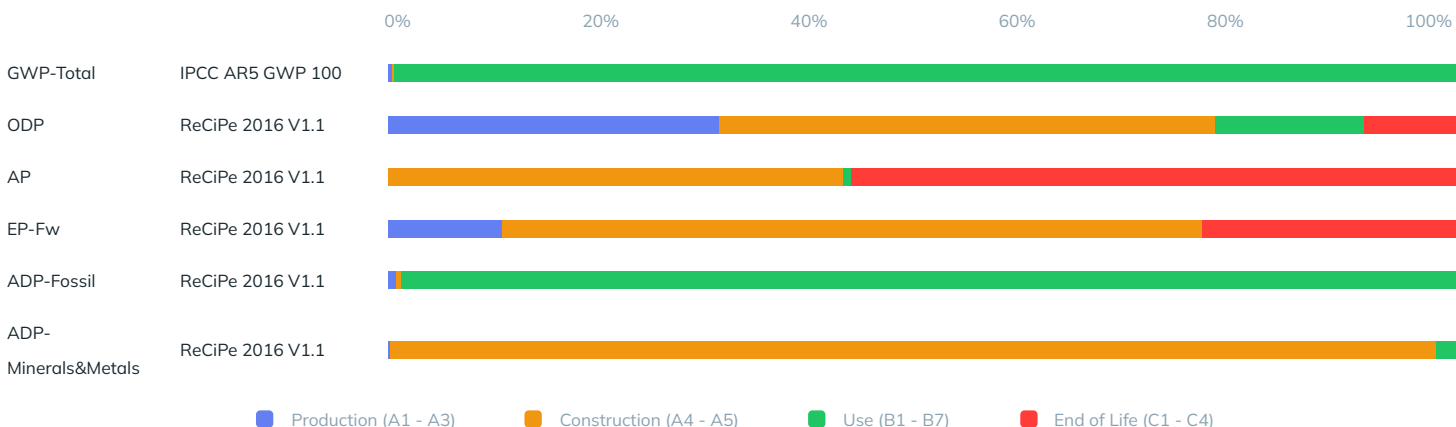
Not all abbreviated indicators listed below may be present in the results above. The inclusion of indicators varies based on PCR requirements.

### Abbreviations:

RPRE or PERE = Renewable primary resources used as energy carrier (fuel), RPRM or PERM = Renewable primary resources with energy content used as material, RPRT or PERT = Total use of renewable primary resources with energy content, NRPRE or PENRE = Non-renewable primary resources used as an energy carrier (fuel), NRPRM or PENRM = Non-renewable primary resources with energy content used as material, NRPRM or PENRM = Total non-renewable primary resources with energy content, SM = Secondary materials, RSF = Renewable secondary fuels, NRSF = Non-renewable secondary fuels, RE = Recovered energy, ADPF = Abiotic depletion potential, FW = Use of net freshwater resources, VOCs = Volatile Organic Compounds.

## Interpretation

The model assumes a printer lifetime of 5 years. The printer is assumed to print an average of 7.24E005 images per year, or 2.78E003 images per day (5 days/week). This unit has built-in functionality for automatic duplexing. As such, a 25% reduction in paper use has been reflected. Power consumption figures are based on Energy Star testing of the printer in each power mode, using this average job load. The LCA data for office paper is based on the uncoated freesheet paper developed by the American Forest & Paper Association, and models paper production, transportation, and end-of-life treatment. This paper dataset assumes that average office paper contains 4% recycled content and is recycled 72% of the time. A paper weight of 20 lb. (75 g/m2) is assumed when paper (rather than an alternative material) is the chosen printing media. The end-of-life treatment for the printer and mechanical consumables represents a best case for electronics recycling, considering that the device enters the general electronics waste stream for US and modeled using end-of-life models for recycling, incineration and landfilling in the US, i.e. separation of bulk parts, shredding, and incineration of electronics. (No credits are applied for materials or energy recovered at end of life, consistent with the recycled content, a.k.a. cut-off EoL allocation methodology.) As LCI models for uncontrolled recycling/disposal of products are not available, this case was not considered in this study.





## References

- (2020). GaBi 2020, GaBi 10: Software and Database for Life Cycle Engineering, Sphera, Leinfelden Echterdingen. <http://www.gabi-software.com>
- (2010). Printing and Writing Papers, Life-Cycle Assessment Summary Report. American Forest & Paper Association, <http://www.afandpa.org>
- (2006). ISO 14040: Environmental management - Life cycle assessment – Principles and framework.
- (2006). ISO 14044: Environmental management - Life cycle assessment – Requirements and guidelines.
- (2006). ISO 14025: Environmental labels and declarations - Environmental labels and declarations – Principles and procedures.
- (1999). ISO/IEC 10561: Information technology -- Office equipment -- Printing devices -- Method for measuring throughput -- Class 1 and Class 2 printers Sustainable Management Promotion Organization (SuMPO) environmental label program
- (2023). Product Category Rule for "Imaging input and/or output equipment", PA -590,000 -AI-08.