



# Remanufacturing is not recycling

There's a big difference between reusing cartridges and recycling them. Remanufacturers often claim that reusing cartridges is better for the environment—but there is more to the story.

## Remanufacturing can create waste and drain resources



Nearly **90%** of remanufactured cartridges collected **will ultimately be thrown away.**<sup>1</sup>



Most remanufacturers **fail to collect their own products** because they don't have a recycling process.<sup>1</sup>

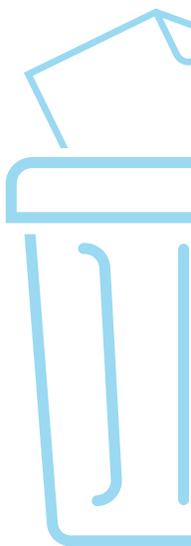


Remanufactured toner cartridges have a **17% larger carbon footprint** than Original HP toner cartridges.<sup>2</sup>

# 12x

paper waste

Remanufactured toner cartridges can use 12 times the paper for reprinting compared to Original HP toner cartridges.<sup>2</sup>



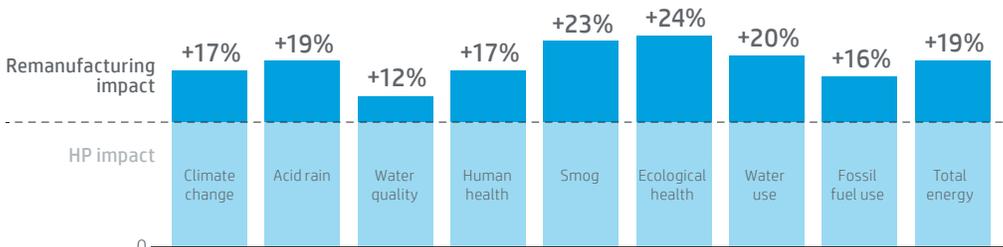
## Remanufacturing can alter ecolabel qualifications

Original HP cartridges, tested together with HP printers and HP paper, meet indoor air quality criteria established by specific ecolabels like Blue Angel<sup>3</sup> and EPEAT.<sup>4</sup>

So be aware: replacing the Original HP cartridge with a remanufactured cartridge could impact your Blue Angel or EPEAT certification.

## Original HP cartridges have a lower environmental impact

Across all areas studied, Original HP toner cartridges had a lower environmental impact compared with remanufactured toner cartridges—making HP the wise choice.<sup>2</sup>



Remanufacturing cartridge results as a percentage of HP results

# Original HP toner cartridges reliably deliver impressive results, a lower environmental impact, and less paper wasted on reprints.<sup>2</sup>



## HP products meet safety and indoor air quality requirements<sup>5</sup>

Original HP cartridges are designed to meet strict ecolabel requirements for emissions, helping you maintain a healthy office environment.<sup>5</sup>



## HP offers free recycling and uses recycled content in new HP cartridges<sup>6</sup>

The HP Planet Partners recycling program makes it free and easy to return your used Original HP cartridges for recycling.<sup>6</sup> HP uses recycled HP cartridge plastic as raw material in the manufacturing of new Original HP cartridges.<sup>7</sup> HP cartridges returned through the HP Planet Partners program are never refilled, resold, or sent to a landfill.<sup>8</sup>



## HP is the best environmental choice for quality and sustainability<sup>9</sup>

Using Original HP toner cartridges results in less paper wasted on reprints.<sup>9</sup>



## HP has holistic sustainability programs

HP is recognized as a global leader in sustainability:<sup>10</sup>

- **Operations**—HP efforts reduce energy use, lower greenhouse gas (GHG) emissions, and minimize water use within our operations.
- **Supply chain**—HP motivates and empowers suppliers to enhance labor conditions, support human rights, and improve environmental performance at supplier production facilities.
- **Social impact**—HP is working to improve access to quality education, healthcare, and economic opportunities so everyone, everywhere—including disadvantaged populations and displaced people—can succeed in the digital economy and create better lives for themselves and their families.

# 4 years in a row

HP has been awarded a position on The Climate "A" List in CDP's Global Climate Change report four years in a row.<sup>11</sup>

Rely on a recognized leader when purchasing your supplies.



<sup>1</sup> InfoTrends, 2016 North America Supplies Recycling study, commissioned by HP. Findings are based on average results of interviews with 9 remanufacturers, 3 NBC manufacturers, 3 brokers and 2 distributors. For details, see [hp.com/go/NA-2016InfoTrends](http://hp.com/go/NA-2016InfoTrends).

<sup>2</sup> 2016 Four Elements Consulting LCA study, commissioned by HP, compared Original HP 80A and 83A monochrome toner cartridges with a sample of remanufactured alternatives across eight environmental impact categories. For more information, see [hp.com/go/NA-LJLCA-2016](http://hp.com/go/NA-LJLCA-2016). The LCA leverages a SpencerLab 2016 study, commissioned by HP, comparing Original HP LaserJet toner cartridges with two brands of non-HP toner cartridges sold in NA. For details, see [www.spencerlab.com/reports/HPReliability-NA-RM2016.pdf](http://www.spencerlab.com/reports/HPReliability-NA-RM2016.pdf).

<sup>3</sup> The Blue Angel criteria for printers, copiers, and multifunction devices (RAL-UZ 122) of the German Federal Environmental Agency are in effect as of 2007 and were valid until the end of December 2013. Since January 2013, the RAL-UZ 171 is in effect including a new particle number guide value for laser printers which supplements the established weight-based fine dust guide value of the Blue Angel.

<sup>4</sup> Electronic Product Environmental Assessment Tool (EPEAT), managed by the Green Electronics Council of the International Sustainability Development Foundation (ISDF). For printing systems, the IEEE Standard for Environmental Assessment of Imaging Equipment (IEEE Std 1680.2-2012) is applied.

<sup>5</sup> 2017 WK1 Blue Angel Indoor Air Quality compliance study, commissioned by HP. The study tested 4 New Build Compatible toner cartridge brands sold as substitutes for HP LaserJet Pro MFP M425dn with cartridge 280A. The tests were carried out in compliance with "Prüfverfahren für die Bestimmung von Emissionen aus Hardcopygeräten" for purposes of Blue Angel labelling of office equipment in accordance with RAL-UZ-205. For details, see <http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-1981ENW>.

<sup>6</sup> 80% of Original HP ink cartridges contain between 45-70% recycled content. 100% of Original HP toner cartridges contain between 10-33% recycled content.

<sup>7</sup> For more details, see the HP Sustainability report at [hp.com/sustainability](http://hp.com/sustainability).

<sup>8</sup> Program availability varies. For more information, visit [hp.com/recycle](http://hp.com/recycle).

<sup>9</sup> 2018 Four Elements Consulting LCA study, commissioned by HP, compared Original HP 80A and 83A monochrome toner cartridges with a sample of NBC alternatives across eight environmental impact categories. For more information, visit [hp.com/go/NA-LJLCA-NBC-2018](http://hp.com/go/NA-LJLCA-NBC-2018). The LCA leverages a SpencerLab 2016 study, commissioned by HP, comparing Original HP LaserJet toner cartridges with three brands of NBC toner cartridges sold in NA. For details, see <http://www.spencerlab.com/reports/HPReliability-NA-NBC2016NB.pdf>.

<sup>10</sup> To see HP's current list of global sustainability awards, go to <http://www8.hp.com/us/en/hp-information/global-citizenship/awards.html>.

<sup>11</sup> For the complete 2017 Climate "A" List, see [cdp.net/en/scores-2017](http://cdp.net/en/scores-2017).

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