



# 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



Even if you return an empty cartridge to a remanufacturer, it is not always guaranteed your cartridge will be kept out of a landfill.<sup>1</sup>



Most remanufacturers surveyed fail to collect their own products.<sup>1</sup>



Remanufactured toner cartridges have a **42% larger carbon footprint** than Original HP toner cartridges.<sup>2</sup>

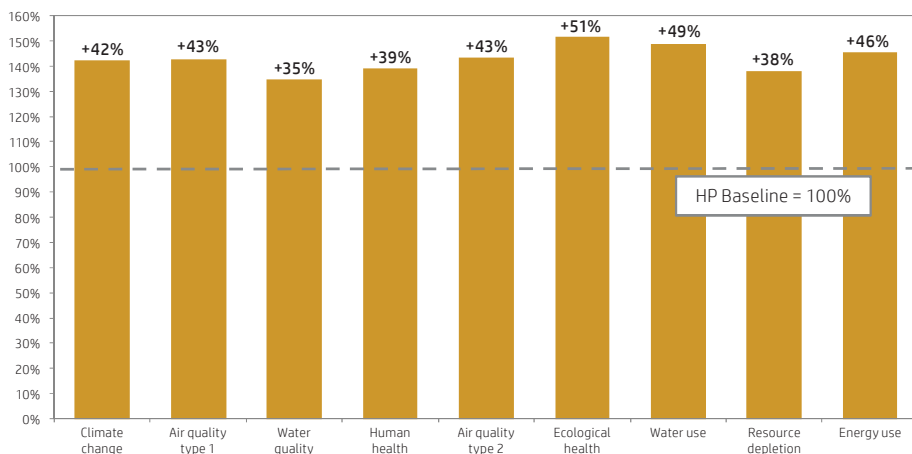
## Remanufacturing can alter ecolabel qualifications

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.

## HP has a lower environmental impact than remanufacturing

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

# 27x paper waste

Remanufactured toner cartridges can use 27 times the paper for reprinting compared to Original HP toner cartridges.<sup>2</sup>



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



## HP creates new products from recycled materials and reduces waste<sup>5</sup>

The HP closed-loop recycling process uses plastics from recycled HP cartridges to manufacture new Original HP ink and toner cartridges. Remanufacturing rarely prevents cartridges from ending up in a landfill.<sup>6</sup>



## HP is the best environmental choice for quality and sustainability

Paper is the main source of printing's environmental impact, and print quality plays a significant role in paper consumption. Using Original HP toner cartridges results in less paper wasted on reprints.



## Original HP cartridges, recycled through the HP Planet Partners program, are never refilled, resold, or sent to a landfill<sup>7</sup>

The HP Planet Partners recycling program makes it free and easy to return your used Original HP cartridges.



## HP has holistic sustainability programs

HP is recognized as a global leader for its actions and strategies in response to climate change. HP measures and discloses its carbon and water footprints for HP operations and the HP supply chain.<sup>8</sup>

Companies that remanufacture cartridges often appear to have environmental credentials, but they rarely provide transparent reporting based on available standards or address carbon footprint measurements or reductions.



HP has been awarded a position on The Climate "A" List in CDP's Global Climate Change report ten years in a row.<sup>9</sup>

Rely on a recognized leader when purchasing your IT equipment and supplies.



<sup>1</sup> InfoTrends, 2016 Western Europe Supplies Recycling study, commissioned by HP. Findings are based on average results of interviews with 7 remanufacturers, 6 brokers and 1 distributor. For details, see [hp.com/go/EMEA-2014InfoTrends](http://hp.com/go/EMEA-2014InfoTrends), [hp.com/go/EMEA-2016InfoTrends](http://hp.com/go/EMEA-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, visit [hp.com/go/EMEA-LJLCA-2016](http://hp.com/go/EMEA-LJLCA-2016). The LCA leverages a SpencerLab 2016 study, commissioned by HP, comparing Original HP LaserJet toner cartridges with six brands of non-HP toner cartridges sold in EMEA. For details, see [spencerlab.com/reports/HPReliability-EMEA-RM2016.pdf](http://spencerlab.com/reports/HPReliability-EMEA-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> 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>6</sup> For more details, see the HP Sustainability report at [hp.com/sustainability](http://hp.com/sustainability).

<sup>7</sup> Program availability varies. For more information, visit [hp.com/recycle](http://hp.com/recycle).

<sup>8</sup> Based on HP review of corporate sustainability reports (if available) of five different cartridge remanufacturing companies, none of which cited global reporting standards as the basis for their reports.

<sup>9</sup> See [https://b8f65cb373b1b7b15feb-c70d8ead6ced550b4d987d7c03fcd1d.ssl.cf3.rackcdn.com/cms/reports/documents/000/001/228/original/CDP\\_Climate\\_Change\\_Report\\_2016.pdf?1485276095](https://b8f65cb373b1b7b15feb-c70d8ead6ced550b4d987d7c03fcd1d.ssl.cf3.rackcdn.com/cms/reports/documents/000/001/228/original/CDP_Climate_Change_Report_2016.pdf?1485276095) for the complete 2015 Climate "A" List.

