



# Remanufacturing is not recycling

Reduce waste and conserve resources with Original HP cartridges



There's a big difference between reusing cartridges—also known as remanufacturing—and recycling them. Despite claims that remanufactured cartridges have less impact on the environment, they fail to measure up to Original HP cartridges. HP provides the products and programs that help you achieve your environmental goals.

## Remanufacturing can create waste.

Remanufacturers often claim that reusing cartridges is a better choice for the environment. But in reality, remanufactured cartridges may not be the environmentally responsible choice they seem to be.

During the remanufacturing process, cartridges are pried apart and glued or clamped back together. Parts are reused or replaced with aftermarket components. The waste created during the remanufacturing process isn't always responsibly recycled. In fact, remanufacturers frequently throw away the unusable cartridges and components they collect. And since many of the cartridges collected by remanufacturers cannot be profitably remanufactured, a lot of the collected cartridges and components could be headed for the landfill.<sup>1</sup>

Original HP cartridges recycled through the HP Planet Partners program are never refilled, resold, or sent to a landfill. When an Original HP cartridge is recycled through the HP Planet Partners program, it is kept out of the landfill for good.

## Remanufactured cartridges can drain resources.

Not only is the remanufacturing process wasteful, but using remanufactured cartridges can also lead to wasted resources. A Lyra Research survey of HP LaserJet customers found that 40% of those using non-HP toner cartridges have a problem with print quality.<sup>2</sup> If the print quality from a remanufactured cartridge doesn't meet your standards, you could be forced to reprint a page, wasting energy and paper.

When you use reliable, Original HP cartridges, you'll get great results page after page and save energy and paper by avoiding unnecessary reprinting.<sup>3</sup>

## Remanufacturing doesn't provide an end-of-life solution.

You might think that remanufacturers reuse cartridges again and again, but often that's not the case. According to an InfoTrends study, only 19% of the toner cartridges and 10% of the ink cartridges remanufactured were remanufactured more than once. Most remanufacturers surveyed fail to collect their own products because they prefer to work with cartridges that have never been remanufactured before. Therefore, more than 90% of the ink and toner cartridges sold by remanufacturers surveyed will ultimately be thrown away.<sup>1</sup> With HP recycling, that waste is avoided, and the material is used to create new products.

## HP recycling creates new products and reduces waste.

HP Planet Partners, a worldwide return and recycling program, gives you a responsible end-of-life solution for your HP cartridges.<sup>4</sup>

All Original HP cartridges returned to HP through Planet Partners go through a multiphase recycling process. They are reduced to raw materials, which can then be used to make new metal and plastic products, such as HP cartridges and other everyday products. Any remaining material is disposed of or handled responsibly through energy recovery. By participating in HP's recycling program, you can help reduce waste and keep cartridges out of the landfill.

Since 1991, HP has collected and recycled 446 million HP cartridges through Planet Partners - enough to fill 347 Olympic-size swimming pools.<sup>5</sup> In 2011, more than 300 million Original HP ink and LaserJet cartridges were manufactured containing content from our "closed loop" recycling process, and the same recycling process kept more than 1,000 garbage trucks full of material out of landfill.

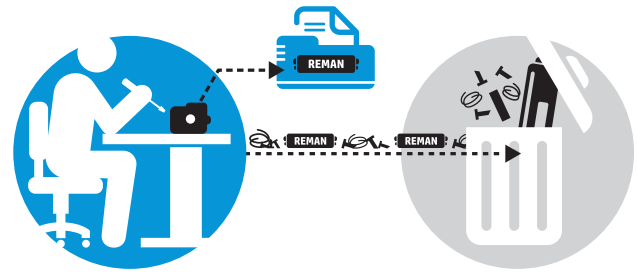
Not only can you recycle your cartridges responsibly with HP, but you can also get something extra for your efforts. When you participate in HP PurchasEdge, you'll earn points that can be redeemed for a variety of new HP products, both when you buy qualifying supplies and when you return your Original HP ink and toner cartridges to HP Planet Partners for recycling. That means you can earn points twice—once when you purchase your cartridges and again when you recycle them responsibly. With HP recycling and the HP PurchasEdge program, you can earn points faster and quickly redeem them for new HP products.

## HP is a leader in environmental responsibility.

Original HP cartridges are designed with the environment in mind. Established in 1992, HP's Design for Environment program is implemented by product stewards who ensure environmental design goals are integrated into every product design. HP also uses recycled materials extensively in packaging, including recycled-content paperboard, corrugated cardboard, and recycled plastic. HP is widely acknowledged for its work in environmental responsibility. In fact, HP was recognized as a leader in the 2011 *Newsweek* Green Rankings of the 500 largest U.S. companies. With HP, customers can trust an environmental leader to help them reduce waste and conserve resources.

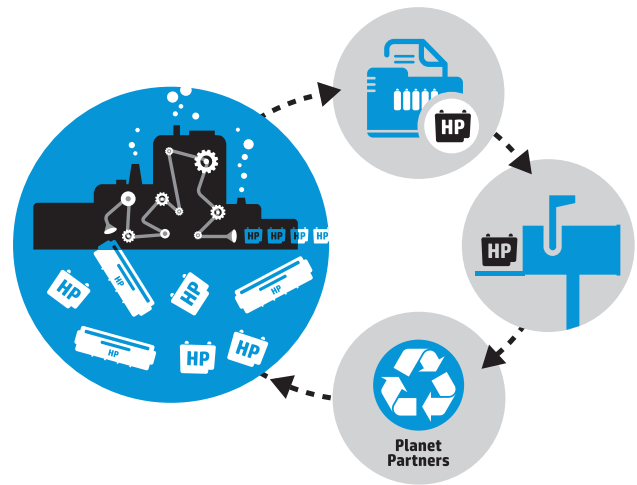
## Cartridge remanufacturing process

The remanufacturing process produces cartridges that are often used only once before ending up in a landfill.<sup>1</sup>



## HP "closed loop" cartridge recycling process

The HP "closed loop" cartridge recycling process uses HP cartridge material recycled through Planet Partners to create new Original HP ink and toner cartridges.



1 InfoTrends, 2011 U.S. Supplies Recycling study. Study commissioned by HP. Results based on interviews with thirteen remanufacturers and brokers. For details, see [www.hp.com/go/suppliesstudy-na](http://www.hp.com/go/suppliesstudy-na).

2 From a 2012 NA Photizo Group/Lyra Research study, commissioned by HP. Results based on a total of 1009 HP monochrome LaserJet users who have used both Original HP and non-HP toner cartridges, of whom 424 experienced problems with non-HP cartridges. For details go to [www.photizogroup.com/information-hub](http://www.photizogroup.com/information-hub).

3 HP calculations based on the average results for 2010 North America Mono QualityLogic study ([www.qualitylogic.com/NAmonotonertest.pdf](http://www.qualitylogic.com/NAmonotonertest.pdf)). Estimated carbon footprint calculation includes paper and printer energy use for reprints. Assumes equal number of pages for external, internal and individual use. Actual results may vary.

4 Program availability varies. Original HP cartridge return and recycling is currently available in more than 50 countries, territories, and regions in Asia, Europe, and North and South America through the HP Planet Partners program. For more information, visit: [www.hp.com/recycle](http://www.hp.com/recycle).

5 As of December 2011.

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