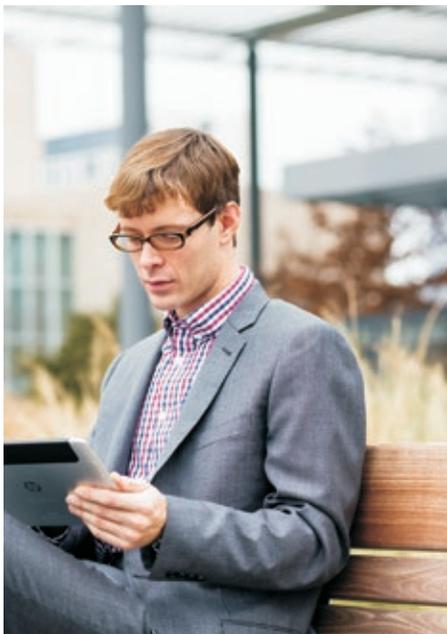


Brochure

Leading the way through a leading materials strategy





Within the technology industry, customers and stakeholders increasingly expect companies to know the sources of materials used in products and the major suppliers involved. In addition to developing high-performing and reliable products for customers, companies must understand which materials are used in those products, the sources of those materials, and the corresponding downstream environmental and human health impacts.

At HP, we're committed to taking a proactive approach to materials sourcing. Our strong, consistent materials strategy is rooted in our Design for Environment program, which we launched in 1992 across our entire business. This commitment helps fuel strategic partnerships, optimal operations performance, and our innovative product portfolio. We evaluate environmental impact across the product life cycle when selecting materials for use in our products. We strive to design products that use less material, and we seek out alternatives to substances of concern. Beyond that, we aim to use recycled materials when possible, and we comply with all relevant government regulations wherever we do business.

Creating innovative products for the common good

Developing and delivering a responsible portfolio of products and solutions doesn't need to conflict with game-changing innovation—rather, it should drive it. That's why we create technology solutions that reflect our rigorous standards for materials quality, a small footprint, and a research and development process that prizes efficiency.

- Since 1995, HP Labs has pursued [nanotechnology](#) as a long-term promise for creating electronics applications that require fewer materials and consume less energy. But even short of full-scale nanotechnologies, HP thin client computing devices can require [up to 65% less material](#) to produce and ship than our smallest desktop PC. We proactively [evaluate materials of concern](#) and, when we need to, restrict substances as consumer preferences or legal requirements dictate, or because precaution warrants it. In all cases where scientific analysis reveals a potential impact on human health or the environment, we seek to replace substances with commercially viable alternatives. We implement our materials restrictions through a three-part compliance process:

- The [HP Supplier Safe and Legal Standard](#) provides a management system for the design, manufacture, and delivery of products.
- The [HP General Specification for the Environment \(GSE\)](#) includes substance and materials requirements for parts and components used in HP products, packaging, and manufacturing.
- The [HP Active Verification Materials Testing Specification](#) defines our requirements for testing materials for specific substances restricted under the GSE.



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Performance powered by responsible sourcing and recycling

HP relies on efficient processes to make the most of all the materials we use. The best and safest materials aren't always the easiest to find, yet they're critical to improving the way technology products are developed. We believe it's imperative to optimize our operations at every stage of the product life cycle, from sourcing and manufacturing to disposal.

- HP taps into the power of the [GreenScreen™ for Safer Chemicals](#) framework—established by the NGO Clean Production Action—to assess the relative merits of alternative chemicals for any given application. From the time we began using the GreenScreen for Safer Chemicals framework in 2007, we have completed more than [160 assessments](#) of materials accounting for more than 80% of the weight in our products. These assessments allow us to replace the potentially hazardous materials we identify through our evaluation process with superior alternatives and to improve the overall quality of the final product. At the same time, we also work with external stakeholders to promote the integration of the GreenScreen tool into eco-label certification and government regulation.
- Many HP products include materials mined in remote locations. To ensure that our operations are as responsible as possible, we uphold strict due-diligence standards for [conflict-free minerals](#). For example, we believe that the tin, tantalum, tungsten, and gold deriving from the Democratic Republic of the Congo and its neighbors must not directly or indirectly fund groups responsible for human rights abuses in this region.
- Many plastics suitable for use in electronics products are made from potentially hazardous materials, including [phthalates](#), [brominated flame retardants \(BFRs\)](#), and [polyvinyl chloride \(PVC\)](#). In 2012, HP added restrictions to the GSE on the use of certain phthalates in plastic parts that are used in HP products. And we've already fully eliminated BFRs and PVC from 100% of our new notebook products.¹ Where technically feasible, we will continue to phase out phthalates, BFRs, and PVC from PCs and other products as market demand and customer expectations permit.
- Customers can reduce their environmental impact and help extend the impact of our improved performance by returning used Original HP ink and LaserJet toner cartridges to authorized retail locations and other collection sites for recycling through the HP Planet Partners program. Through our "[closed loop](#)" [recycling process](#), Original HP ink and LaserJet toner cartridges are reduced to raw materials that can then be used to make new cartridges, as well as other metal and plastic products. Over the past 2 years, we have [shipped 600 million inkjet cartridges containing some recycled plastic](#) from this process.²

Strong partnerships to set the standard—together

We believe that effective collaboration can shift the way technology products are developed, engineered, and delivered to the market. That's why we partner with businesses, NGOs, and governments—on a global scale—to raise industry-wide supply chain standards.

- HP was one of the first companies to broaden the European Union's [Restriction of Hazardous Substances \(RoHS\)](#) Directive controls beyond the required scope. With the establishment of the [GSE](#), we've extended RoHS controls to include all of our products worldwide.
- HP complies with the European Union's [Registration, Evaluation, Authorisation and Restriction of Chemicals \(REACH\)](#) regulation. The law sets requirements for assessing and managing the risks posed by chemicals. We champion the belief that manufacturers must ensure that suppliers have controlled processes in place to keep noncompliant material from entering the manufacturing process.
- HP is a long-standing member of the [Business-NGO Working Group for Safer Chemicals and Sustainable Materials](#), which allows us to help others in the industry improve their materials selection process. Our participation in the [Green Chemistry and Commerce Council](#) enables us to drive adoption of safe materials use throughout the technology industry.



¹ See section 3.31 of HP's General Specification for the Environment, Rev 0.

² The recycled plastic used in inkjet cartridges also contains recycled plastic from bottles.



Advancing the way people live and work

We believe strong business depends on strong values—producing innovative technology solutions while also extending our role as an economic, social, and environmental resource in the communities where we work and live. That’s why we ensure alignment between our company values, the materials we source, and the solutions we deliver. And we stay out ahead of the changing landscape of sustainability and responsible sourcing.

Looking to the future means we continue to develop products that benefit our customers’ bottom line and create a positive impact on society and the environment. Good corporate citizenship is critical to worthy innovations, strong operational performance, and the delivery of quality products to our customers—at the heart of our broad objective to advance the way people live and work.

For more information on our materials strategy and to see our “closed loop” recycling process in action—including helpful resources for your purchasing decisions—take a look at these additional resources:

- [Materials section of the HP 2012 Global Citizenship Report](#)
- [A guide to sustainable IT purchasing](#)—including a checklist to help you evaluate technology products on a variety of environmental criteria, including materials used in manufacturing
- [HP “closed loop” recycling process video](#)

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