

Public Sector

Energy efficiency and
waste reduction
Executive Order 13514



Energy efficiency and waste reduction



The challenge

Reduce greenhouse gas emissions

On October 5, 2009 President Obama issued an Executive Order that directs Federal agencies to set goals for 2020 greenhouse gas emission reduction targets.

The order states that Federal agencies shall increase energy efficiency; conserve water; eliminate waste, recycle, and prevent pollution; leverage agency acquisitions to foster markets for sustainable technologies and environmentally preferable materials, products, and services; design, construct, maintain, and operate high performance sustainable buildings in sustainable locations; and support sustainable communities.

Visit www.whitehouse.gov and search for "Executive Order 13514" for more information.

Reduce waste with solid ink

Solid ink



maintenance kits



Waste from 1 printer

Over the 4 year life of a typical cartridge-based toner printer, the waste generated amounts to 450 lbs. A Xerox solid ink printer produces only 23 lbs. of waste!

Laser

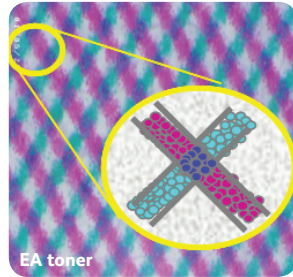
toner cartridges

imaging units

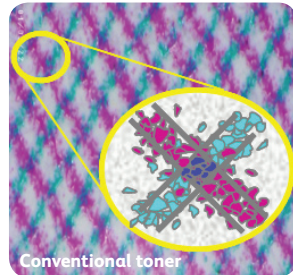
fuser



Increase efficiency with EA toner



EA toner



Conventional toner

EA Toner fuses at a lower temperature than typical laser toners, reducing energy consumption by up to 50%. It's uniform particle size and shape requires 40-50% less toner to cover a square centimeter.

How Xerox technologies can help

Xerox Energy Efficient Technologies

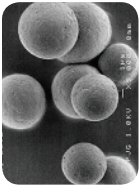
The solid ink solution	The EA toner solution
<p>Xerox's cartridge-free solid ink technology provides a remarkably environmentally-friendly alternative to traditional laser-based printers and multifunction printers (MFPs).</p>	<p>Emulsion Aggregation (EA) toner is a big step forward in toner-based products. Its smaller size and more uniformly-shaped particles provide big benefits in sustainability.</p>
Increase Energy Efficiency	
<p>Reduces energy consumption by 15% on average with the Intelligent Ready feature that "learns" workgroup printing usage times and moves to low-power mode when use is unlikely.</p>	<p>Consumes up to 50% less energy than a standard laser printer. Fusing toner is the most power-intensive process in laser printing. The fusing temperature is considerably lower with EA toner resulting in lower energy consumption as well as higher reliability and improved print quality.</p>
<p>Solid ink supplies require 28:1 less CO² emissions to transport and store than a standard laser-based device's supplies.</p>	<p>Requires 25-35% less energy to manufacture per pound than standard toner due to its extremely small size and uniform shape.</p>
<p>Less energy is used to manufacture solid ink compared to standard toner, thanks to its unique design.</p>	<p>EA toner is more compact enabling Xerox to manufacture smaller cartridges without sacrificing print capacity. This in turn cuts CO² emissions in transport and the space required for storage.</p>
Reduce Waste	
<p>Generates 90% less waste than a comparable laser device because it has no cartridges to dispose of and far less packaging to add to landfills</p>	<p>Requires 40-50% less toner during printing because it takes only half as much EA toner to cover a square centimeter (.04 - .05 milligrams of EA toner vs. .07 - .09 milligrams of conventional toner)</p>
<p>Solid ink provides high-quality results on recycled paper of any kind.</p>	<p>With smaller cartridges and packaging EA toner creates less waste than standard toner.</p>

[Learn more about solid ink](#)

[Learn more about EA toner](#)

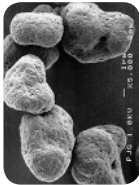


Solid ink's cartridge-free design and minimal packaging, its nearly waste-free printing process and its safe, toxin-free solid ink sticks make it a very environmentally-conscious way to print.



EA toner

The small size and uniform shape of EA toner particles means less energy and less waste, faster warm-up time, sharper image quality and higher reliability.



Conventional toner

How Xerox programs can help

“Right-Sizing” the Print Environment

The **Xerox Sustainability Calculator** evaluates the current office environment of printers, copiers and multifunction devices and then estimates environmental benefits that could be achieved in terms of energy and paper use, solid waste, water, air and greenhouse gas emissions.

Environmentally Responsible Manufacturing

Together, with our suppliers, customers, and stakeholders we strive to maintain the highest standards to preserve the environment for generations to come. To learn more, visit **Xerox Sustainability Goals and Priorities**.

Toner Cartridge Recycling

Through the **Xerox Green World Alliance®**, our customers are encouraged to return toner cartridges and containers to Xerox for recycling. This program has kept millions of used cartridges and toner bottles out of landfills.

Equipment Trade-In and Recycling

Our approach to managing products at end of life translates into significant environmental benefits. Equipment remanufacture and the reuse and recycling of parts prevent millions of pounds of waste from entering landfills each year – 106 million pounds (48,000 metric tons) in 2008 alone. Learn more about the **Xerox Trade-in and Recycle Program**.

The Phaser® 6140 produces up to 80% less waste than comparable color laser printers.



For more information, contact:

