THE BATTLE AGAINST PLASTIC POLLUTION

HP INNOVATES TO PREVENT POLLUTION AND STRENGTHEN COMMUNITIES

THE CASE FOR CIRCULAR

HP'S SHIFT TO A CIRCULAR FUTURE

Amidst rapid population growth, an expanding middle class, and increasingly scarce natural resources, the traditional linear "take, make, dispose" production model is no longer viable. Which is why HP is accelerating the shift to a more circular, low-carbon future throughout our material sourcing, product design, service-based delivery and recycling programs.

TODAY'S CIRCULAR WINS

HOW HP'S CLOSED-LOOP RECYCLING IS MAKING A DIFFERENCE

HP has been a leader in closed-loop plastic recycling for decades. Established in 1991, HP's Planet Partners recycling program has kept **875 million** HP cartridges, **114 million** apparel hangers and **4.69 billion** post-consumer plastic bottles out of landfills[1]—instead, upcycling them to make new HP products.

1M
PER DAY

plastic bottles are recycled through HP's closed-loop recycling process and then incorporated into new products

82%

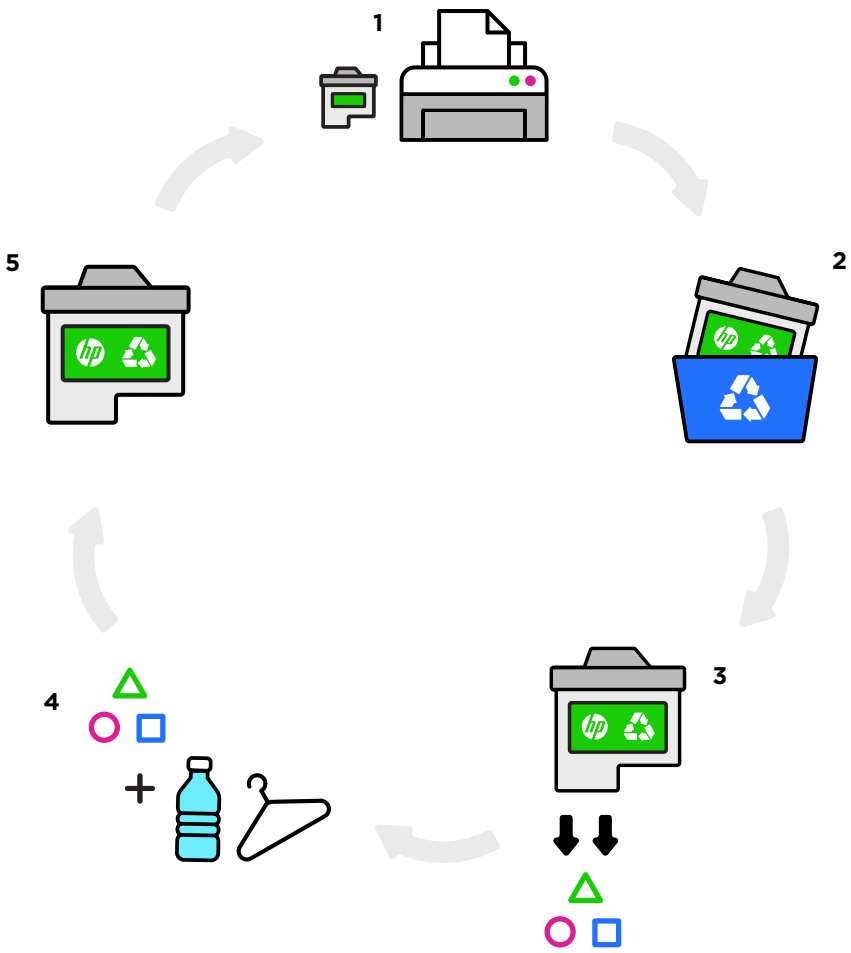
of our Original HP ink cartridges contain over **45% post-consumer plastic content**

100%

of Original HP toner cartridges contain **5%—45% post-consumer or post-industrial recycled plastic content**

1 Does not include toner bottles

HP'S CLOSED-LOOP RECYCLING STRATEGY



HOW IT WORKS— HP INK CARTRIDGE RECYCLING:

1. Ink is bought and used
2. Used empty cartridges are returned to HP
3. HP sorts and shreds used recyclable plastic material
4. Recycled cartridges are strengthened with recycled bottles and hangers
5. HP creates new Original HP cartridges with recycled plastic

In 2016, we expanded our closed-loop recycling program to include hardware and have since launched several hardware products with recycled plastic, including the HP Tango printer, which is made with more than 30% closed-loop recycled plastic from electronics.

HP'S PLASTIC STRATEGY

ELIMINATE WHERE POSSIBLE
Reduce single use plastic packaging by 75% by 2025.

CHOOSE SUSTAINABLE OPTIONS
Swap plastic foam packaging for 100% recyclable molded pulp packaging.

REPLACE VIRGIN PLASTIC
Use 30% postconsumer recycled plastic in HP products by 2025[1].

SOURCE RECYCLED PLASTIC
Expand supply chain for ocean-bound plastic where it has the greatest impact.

HELP CUSTOMERS RECYCLE
Continue to grow HP's Planet Partners[2] program and encourage our customers to recycle.

---

1 Recycled content plastic (RCP) as a percentage of total plastic used in all HP personal print cartridges shipped during the reporting year. Total volume excludes brand-licensed products and after-market hardware accessories. Total RCP includes post-consumer waste recycled plastic, closed-loop plastic, and ocean-bound plastic used in HP product manufacturing. Personal systems plastic is defined by EPEAT® eco-label criteria. Subject to relevant restrictions on the use and distribution of materials destined for recycling and/or recycled feedstocks.

2 HP Planet Partners program is now available in 76 countries and territories www.hp.com/recycling

3 One income opportunity equals the ability for a person to earn a consistent income for one month.

HP has sourced **more than one million pounds** of post-consumer ocean-bound plastic from Haiti, while supporting 1,100 local income opportunities and connecting 150 children to educational[3] opportunities as of September, 2019.

DEEP DIVE INTO OCEAN PLASTIC

WHY OCEAN PLASTIC IS DETRIMENTAL

Plastic pollution is a major inhibitor to healthy oceans.

Once plastic reaches the ocean, it is incredibly hard to remove. Battered by seawater and bleached by the sun, plastic debris breaks down into ever-smaller particles, known as microplastics. These microplastics settle onto seafloors or are ingested by animals, causing a host of health and ecosystem problems. Even when plastic can be removed from the ocean, it is often so degraded that it is hard to recycle or re-use.

Every year, 8 million metric tons of it enters our oceans, joining the estimated 150 million metric tons already circulating.

HP aims to "turn off the tap" of plastic entering the ocean.

We are working to divert ocean-bound plastic into our circular supply chain, where it can be recycled into new, high value products.

WHAT IS OCEAN-BOUND PLASTIC?

Plastic waste found within **50 km** of an ocean coastline, including rivers, where no municipal or alternative diversion pathway for plastics is available within **100 km** of the radius of the site.

TURNING OFF THE TAP

HOW HP IS KEEPING PLASTIC OUT OF OUR OCEANS

HP has honed its expertise in closed-loop recycling manufacturing over decades. We have now applied that knowledge to build a supply chain in Haiti to help address the challenge of plastic pollution—on land and in the ocean. We have already diverted more than **60 million bottles** from reaching the waterways and oceans—instead cycling this postconsumer material into our supply chain and into new HP products.

Additionally, HP was an early member of NextWave Plastics, a consortium of businesses committed to creating the first global network of ocean-bound plastics supply chains. Together, we aim to collectively divert a minimum of **25,000 metric tons** of plastic—the equivalent of **1.2 billion** single-use plastic water bottles—from entering the ocean by the end of 2025.


“We are keeping millions of plastic bottles from ever reaching our oceans, converting them into sustainable products, and creating new opportunities for the local community.”
Ellen Jackowski
Chief Sustainability
and Social Impact Officer, HP

AT A GLANCE

BUILDING AN OCEAN PLASTIC SUPPLY CHAIN IN HAITI

2016

SEPTEMBER

Committed, alongside the First Mile Coalition, to purchase ocean-bound plastic from Haiti and improve conditions at the Truitier landfill.

2017

MARCH

Shipped first container of ocean-bound plastic from Haiti.

JUNE

Released first Original HP ink cartridges with plastic from Haiti.

DECEMBER

Sourced nearly **20,000 pounds** of ocean-bound plastic material.

2018

MARCH

Grew sourced ocean-bound plastic to nearly **375,000 pounds**. Connected 50 children to educational opportunities.

OCTOBER

Grew sourced ocean-bound plastic to more than **550,000 pounds**, supporting **600 income opportunities** supported in Haiti.

Joined NextWave Plastics.

2019

APRIL

Invested **$2 million** to expand ocean-bound plastic supply chain and support an additional **1,000 income** opportunities locally.

Helped open two new technology-enabled learning centers in Haiti.

JUNE

Launched the HP EliteDisplay E273d—the world's first display manufactured with ocean plastic.

Grew sourced ocean-bound plastic to **700,000 pounds**.

Committed to using **30% recycled content plastic** in Personal Systems, Print hardware and supplies by 2025.

Announced support for groundbreaking research with Dr. Jenna Jambeck and Dr. Chris Cuomo on women's crucial work in recycling and managing waste, specifically ocean-bound plastics.

SEPTEMBER

Grew sourced ocean-bound plastic to over one million pounds. Supported more than **1,100 income opportunities** and connected 150 children with quality education, food, and medical assistance.

Launched the HP Elite Dragonfly, the world's first notebook with ocean-bound plastics.

2020

JANUARY

Joined Project Stop as a technical partner.

APRIL

Launched the HP ZBook Studio—the world's first mobile workstation with ocean-bound plastics.

HP partners with UL on first ever certification for ocean-bound plastics.

JUNE

Sourced more that 1.7M pounds of ocean-bound plastic material.

HP'S WORLD'S FIRST INNOVATIONS

ORIGINAL HP CARTRIDGES

35 Million plastic bottles re-used so far.

HP ELITE DISPLAY MONITOR E273D

Contains the equivalent of more than three 16 oz. plastic bottles.

HP ELITE DRAGONFLY

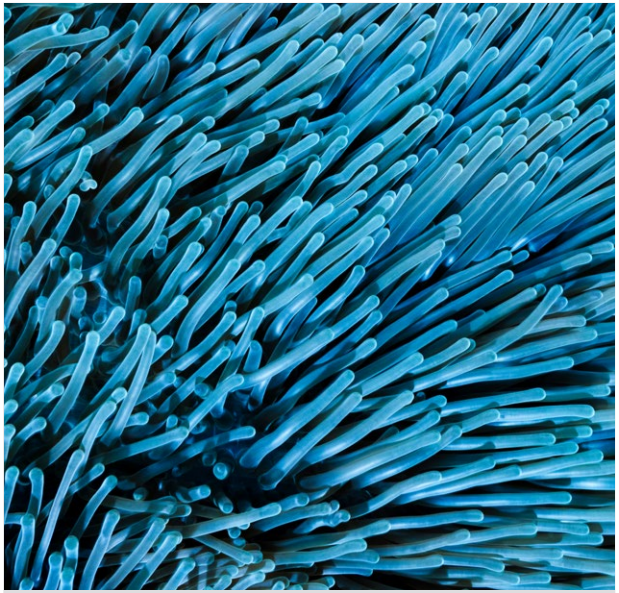
World's first notebook with ocean-bound plastic material.

HP ZBOOK STUDIO

World's first mobile workstation with ocean-bound plastics.

HP ELITE C1030 CHROMEBOOK ENTERPRISE

Made with a top lid of 75% recycled aluminum, a keyboard made from 50% recycled plastics, and speakers with ocean-bound plastics.



"Since joining NextWave Plastics, HP has been a standout partner. We are proud that member companies continue to scale commercially viable and operational ocean-bound plastics supply chains—keeping plastic in the economy and out of the ocean."

Dune Ives, executive director of Lonely Whale, the convening entity for NextWave Plastics.

OUR PARTNERS

THREAD is on a mission to end poverty by creating dignified jobs and responsible, high-quality fabrics. They are a Certified B Corporation that transforms plastic bottles into the most responsible fabrics on the planet. Every product made with Thread supports thousands of purpose-filled jobs in the developing world and the United States.

LAVERGNE specializes in the formulation of customized reactive, compounded, engineered resins. Their focus is designing, developing, and manufacturing high-value sustainable resins (alloys and composites) using 100% post-consumer recycled (PCR) plastics.

THE OCEAN PLASTIC LEADERSHIP NETWORK brings together leaders across the solution spectrum, from activist to industry, in the heart of the ocean plastics crisis to collaborate on solutions.

NEXTWAVE is a consortium of worldwide businesses committed to scaling the use of ocean-bound plastics. Convened by Lonely Whale, NextWave member companies are currently on track, in alignment with UN SDG 14.1, to divert a minimum of 25,000 tonnes of plastics, the equivalent to 1.2 billion single-use plastic water bottles, from entering the ocean by the end of the year 2025.

WORK has a mission to accompany families in Haiti out of poverty by providing them with good, dignified jobs. Their work is based within one community in Port-au-Prince, Haiti, called Menelas, where about 1,500 families live. Their goal is simple—to place two heads of households into good, dignified jobs, so that families and their community can work together, provide, and lift themselves out of poverty forever.

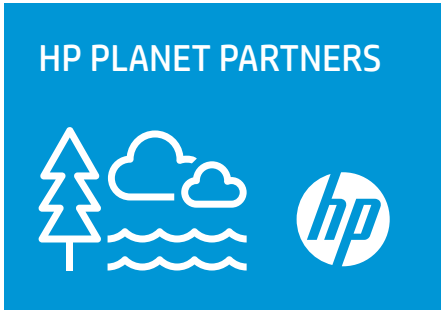
SYSTEMIQ is a systems change company that partners with business, finance, policy-makers, and civil society to make economic systems truly sustainable. Through Project STOP, SYSTEMIQ collaborates with governments and communities in Southeast Asia to create effective waste management systems that eliminate plastics leakage into the ocean and provide solutions that can be replicated in other cities.

ECSSA Environmental Cleaning Solutions S.A. (ECSSA) operates a material recovery facility based in Port au Prince, Haiti which collects recyclable products; specifically PET, HDPE, LDPE, Tin, OCC, and Aluminum. Our goal is to collect over 80 tons of solid waste per day.

READ MORE

HP'S SUSTAINABLE IMPACT REPORT

An in-depth look at how HP is affirming its commitment to its impact on People, Planet and the Community. Its report focuses on highlighting actions the company is taking to address some of the most serious societal challenges of our time, including climate change, plastic pollution, gender and racial inequality, and access to quality education.



HP PLANET PARTNERS

Our return and recycling program enables simple, convenient recycling of HP products.

LEARN MORE

OCEANS OF PLASTIC

A video tour through HP's ocean plastic supply chain in Haiti.

HP INK CARTRIDGE RECYCLING

Learn how HP ink cartridges are recycled to create new HP products and supplies.

UNBROKEN CIRCLE OF HEROES

Experience HP's closed-loop recycling process for toner cartridges and the important role that the customer can play in this process.

HP EUROPE PRINT CIRCULAR ECONOMY STORY

An exploration of HP's recycling efforts in the Netherlands and Germany.

HP AND COOPERATIVE: AN INCLUSIVE E-WASTE STORY

Renilda's & Marly's stories: two women who are part of HP's initiative in Brazil to enable recycling co-op to deal with electronic waste.

ROSETTE'S STORY

A Haitian woman's reinvention story, powered by HP and The First Mile Coalition.