

Helping you meet business and sustainability goals



Facing the challenges of this century

- Global population is on pace to hit 9.4 billion by 2050
- More than 263 million children and youth worldwide are out of school
- Global middle class reached 3.2 billion by 2016 and is expected to grow
- In the next 20+ years, energy use will rise 48%, GHG emissions will rise by 34%, and demand for water will be 40% higher than supply



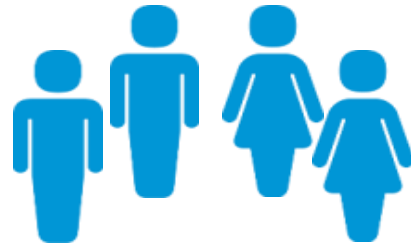
Number of Earths we'll need by 2050

What is sustainability at HP?

Reinventing how we make, use and regenerate amazing technology so businesses, communities and individuals can thrive.



Environment



Society



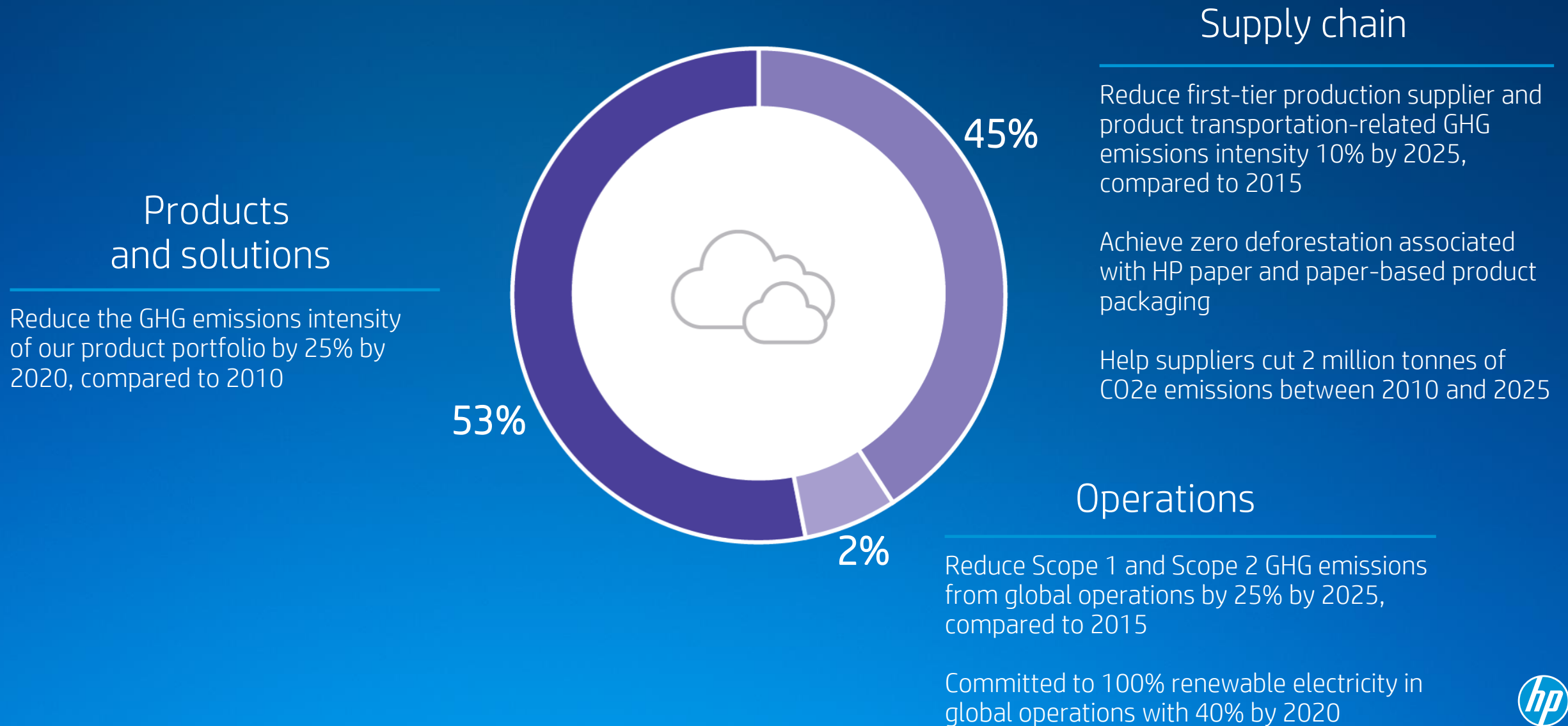
Integrity

Full circle video



[Access video here](#)

HP's global emissions impact and goals



Products and solutions

Reduce the GHG emissions intensity of our product portfolio by 25% by 2020, compared to 2010

Supply chain

Reduce first-tier production supplier and product transportation-related GHG emissions intensity 10% by 2025, compared to 2015

Achieve zero deforestation associated with HP paper and paper-based product packaging

Help suppliers cut 2 million tonnes of CO2e emissions between 2010 and 2025

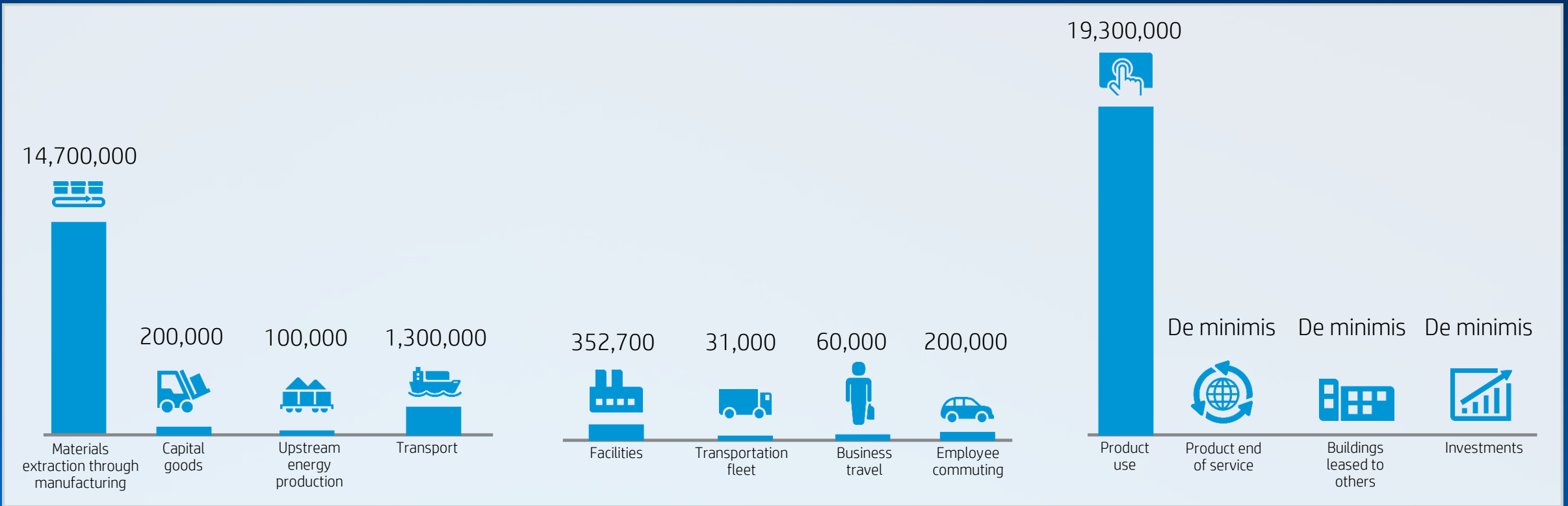
Operations

Reduce Scope 1 and Scope 2 GHG emissions from global operations by 25% by 2025, compared to 2015

Committed to 100% renewable electricity in global operations with 40% by 2020



HP's global emissions impact and goals



Supply chain (45%)

Reduce first-tier production supplier and product transportation-related GHG emissions intensity 10% by 2025, compared to 2015

Achieve zero deforestation associated with HP paper and paper-based product packaging

Help suppliers cut 2 million tonnes of CO2e emissions between 2010 and 2025

Operations (2%)

Reduce Scope 1 and Scope 2 GHG emissions from global operations by 25% by 2025, compared to 2015

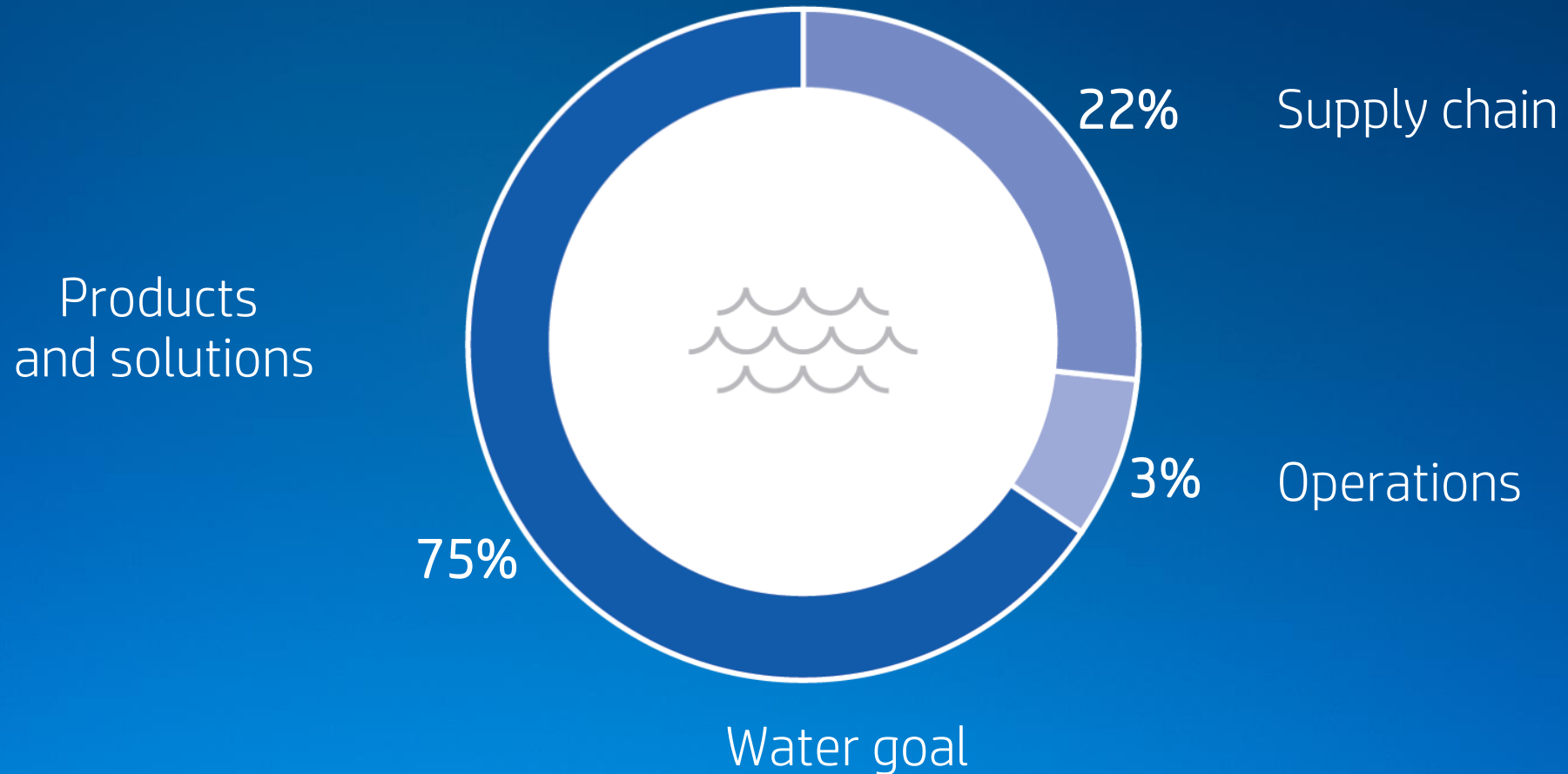
Committed to 100% renewable electricity in global operations with 40% by 2020

Products and solutions (53%)

Reduce the GHG emissions intensity of our product portfolio by 25% by 2020, compared to 2010



HP's global water footprint and goal



Reduce potable water consumption in global operations by 15% by 2025, compared to 2015



HP in action

Sustainability is core to our vision of making life better...

Named to **DJSI World Index**, **FSTE4Good**, and **CDP Climate A lists**

1st to publish supply chain responsibility code of conduct and industry-leading standards

Commits **US\$1M** toward education and employment opportunities to aid in global refugee crisis

Has most diverse board of directors among U.S. technology companies

Commits to achieving **100%** renewable electricity usage and zero deforestation in global operations

Recycles 1 million water bottles per day for new HP inkjet cartridges



Computing and Printing with the Environment in Mind


Raising the bar on energy efficiency

Since 2010, HP has reduced energy consumption of our LaserJet portfolio by 56% on average*




1984
HP LaserJet II

 Annual energy cost: \$56

 Used 586 kWh/year


 Printed 8 ppm

1993
HP LaserJet 4p


 Annual energy cost: \$13


 Used 100 kWh/year


 Printed 12 ppm

 Instant-on technology


2008
HP LaserJet
P1006

 Annual energy cost: \$3


 Used 27 kWh/year


 Printed 17 ppm

2016
HP LaserJet
Pro M201dw

 Annual energy cost: <\$1

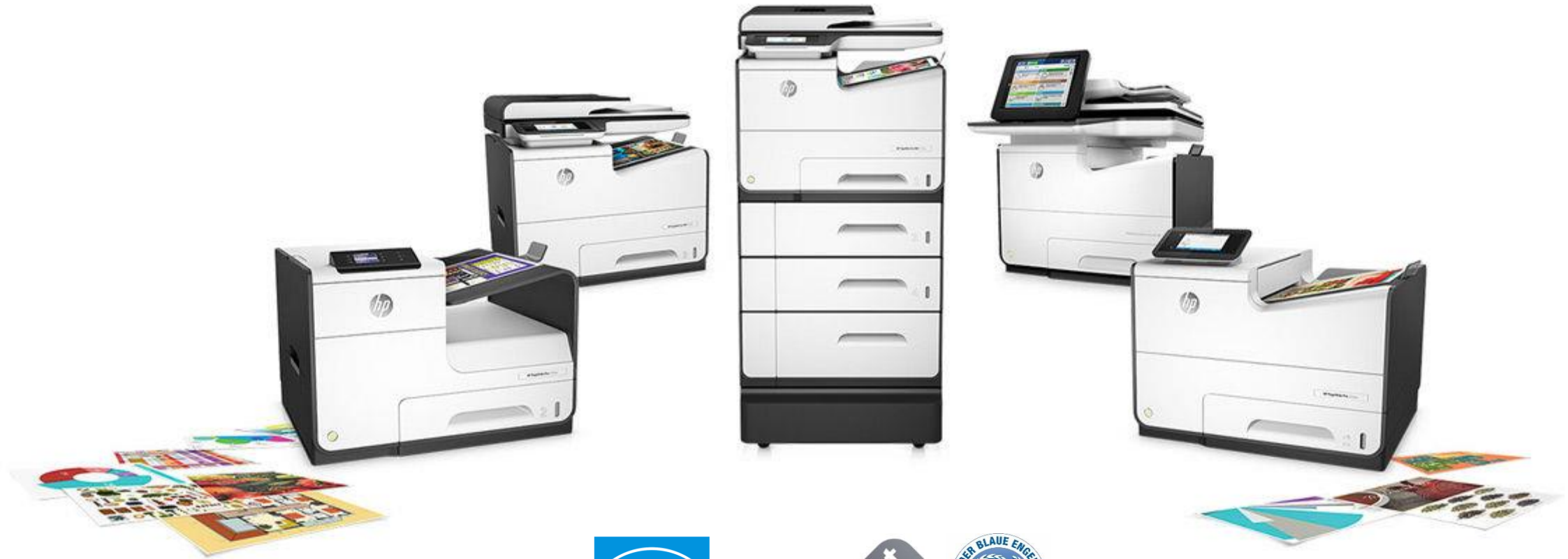
 Used 10 kWh/year

 Printed 26 ppm

 Auto-on/Auto-off
Energy efficient toner
Auto duplexing



Many HP printers are ENERGY STAR[®] and EPEAT certified



Reduce the footprint of printing

Ways to Reduce Paper Waste

- **Duplexing:**
 - Saves 33%-50%
- **Pull Printing:**
 - Saves between 10% to 30%



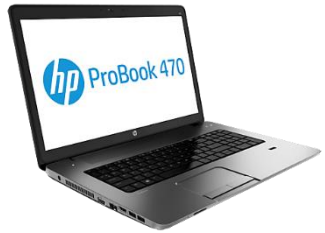
Pull Printing stated as 10 – 30%: http://www.hp.com/canada/corporate/hp_info/environment/pdf/quickfacts-march-2013.pdf

Raising the bar on energy efficiency

Since 2010, HP has reduced energy consumption of our personal system portfolio by 25% on average¹.

Computing Example

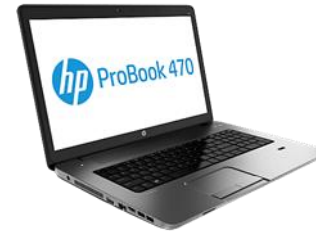
470 G1 to 470 G3:
~33% energy savings²



2013
HP Probook 470 G1
• 42.27 kWh per year²



2014
HP EliteDesk 705 G1
• 83 kWh per year³



2016-present
HP Probook 470 G4
(successor to the 470 G1)
• 28.35 kWh per year²



2016-present
HP EliteDesk 705 G3
(successor to the 705 G1)
• 50 kWh per year³

705 G1 to 705 G3:
~39% energy savings³

¹ The average energy consumption of HP products was estimated annually between 2010 and 2015 using high-volume product lines representative of the overall shipped product volume. The high-volume product lines include notebook and desktop computers, tablets, AIOs, workstations, thin clients and displays..

² Based on HP internal testing for ENERGY STAR certification. Energy consumption values shown on ENERGY STAR website at <http://www.energystar.gov/>

³ Based on HP Carbon Footprint Calculator calculations (10/16); Configuration used – Desktop (705 G1/705 G3): Desktop Mini, AMD A6, integrated graphics, high efficiency PSU



Industry-leading Products



www.hp.com/go/ecolabels

EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country.



Reducing and reusing materials in personal systems

- Total materials usage decreasing
 - Estimated materials use intensity down 28% since 2012¹
- Total post-consumer recycled plastic usage for personal systems increasing
 - In 2015, 71% of new commercial displays were shipped with more than 10% post-consumer recycled plastic.²



1. Based on materials Use Intensity calculation for all HP personal system products (notebooks, desktops, thin clients, tablets and other mobility products, workstations, and displays) for 2012 and 2014 estimated materials use intensity was down 28% between 2012 and 2014. Material use intensity defined by materials used per profit dollar (Tons of material shipped/ revenue by year).
2. **Source:** HP Sustainability Report page 48

Reducing materials and energy use in computing

Elite X3

- No matter what type of worker you are, the x3 can optimize your materials usage.
- Up to 56% less material used in an x3 office solution compared to a traditional solution.¹



1. Total weight for the x3 and accessories, compared to a combination of HP notebook, docking station, desktop, and iPhone 6s plus.

Reducing materials and energy use in computing

Elite Slice G1

- 70% lighter and up to 50% more energy efficient than the EliteDesk 800 G2 small form factor PC¹
- ENERGY STAR[®] certified
- EPEAT[®] Gold registered



1. Compared to the EliteDesk 800 G2 Small Form factor PC (using product weight and ENERGY STAR energy consumption).

Reducing materials and energy use in computing

Spectre Pro 13 G1

- At a thickness of 10.4mm, this is HP's thinnest laptop yet.
- Starting at less than 3lb
- ENERGY STAR® certified
- EPEAT® Gold registered



A photograph of two men in business attire. The man on the left is wearing a dark suit, white shirt, and purple tie. The man on the right is wearing a light blue striped shirt and a red tie. They are both looking at a silver HP tablet held by the man on the right. The background is a white wall with some faint, illegible text.

Carbon Footprint Calculators

Free tools help estimate energy use, cost, and carbon impact of PCs and printers

Data enables more informed purchasing decisions

Better understand resource tradeoffs of different form-factors, features, and capabilities

www.hp.com/go/carbonfootprint



HP Planet Partners return & recycling program

A landfill is a wonderful thing to waste!





HP Planet Partners

Partnering for the planet for more than 25 years



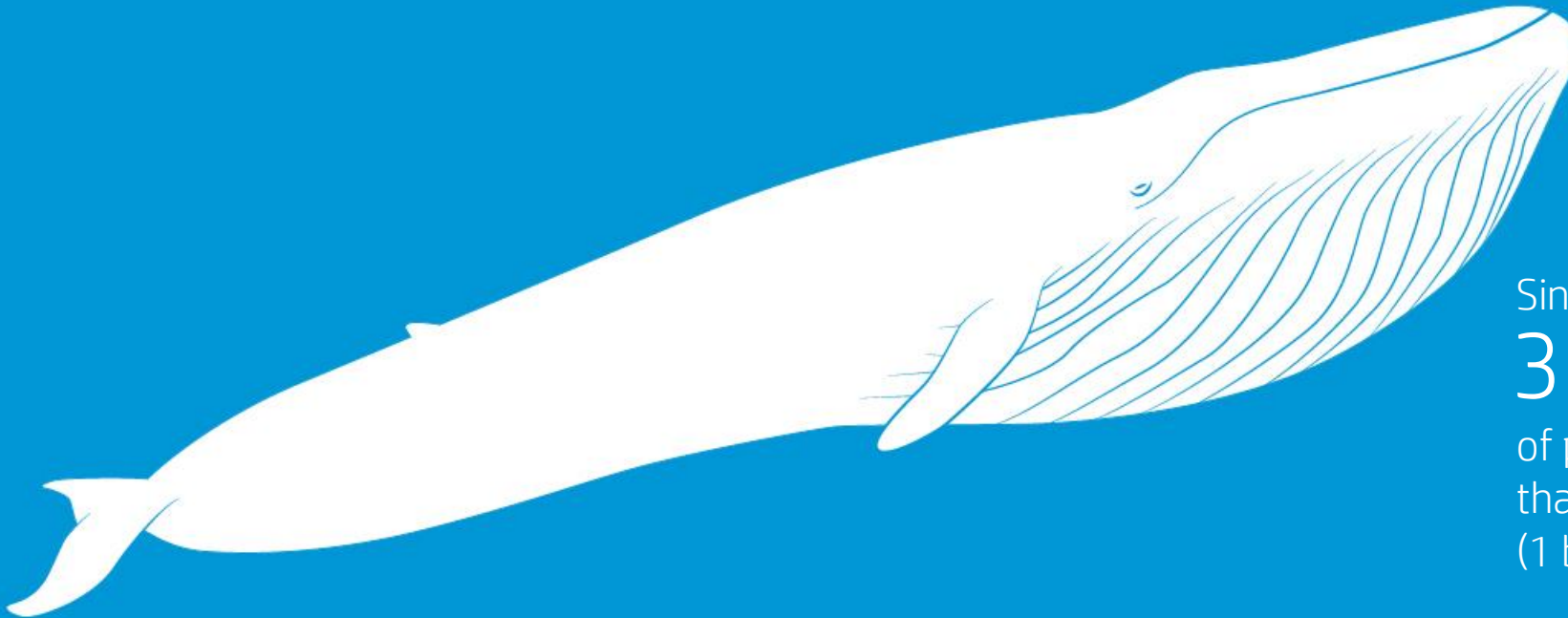
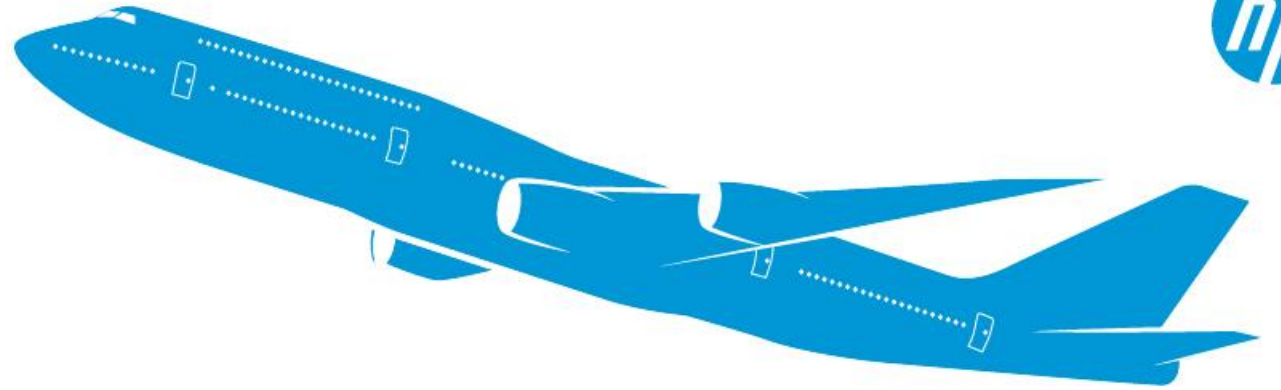
HP provides easy, secure, and responsible ways to retire your IT products.



In 2016, we recycled

264 million pounds

of hardware (including HP and non-HP products) and HP cartridges—the equivalent weight of 267 Boeing 747s. (1 Boeing 747 8I : 987,000 pounds)



Since 1987, HP has recycled more than
3.5 billion pounds
of products, equaling the weight of more
than 8 thousand whales
(1 blue whale : 400,000 pounds)



HP Planet Partners celebrates 25 years of supplies recycling ...making a difference together

735 million

recycled HP cartridges
from 60 countries

3.5 billion

recycled plastic bottles

70 million

recycled hangers



3.5 billion

new print cartridges



Used cartridges and other plastics you recycle are combined to make new HP print cartridges—3.5 billion of them.



HP Planet Partners

Partnering for the planet, one cartridge at a time



80% of Original HP ink cartridges contain recycled content.



100% of Original HP toner cartridges contain recycled content.

So why do customers care about recycling/end-of-life?

Data Security



- Data on devices
- Properly retiring assets
- Ensure sound recycling

Achieving Sustainability Goals

- Landfill diversion goals
- Corporate citizenship
- Regulation compliance



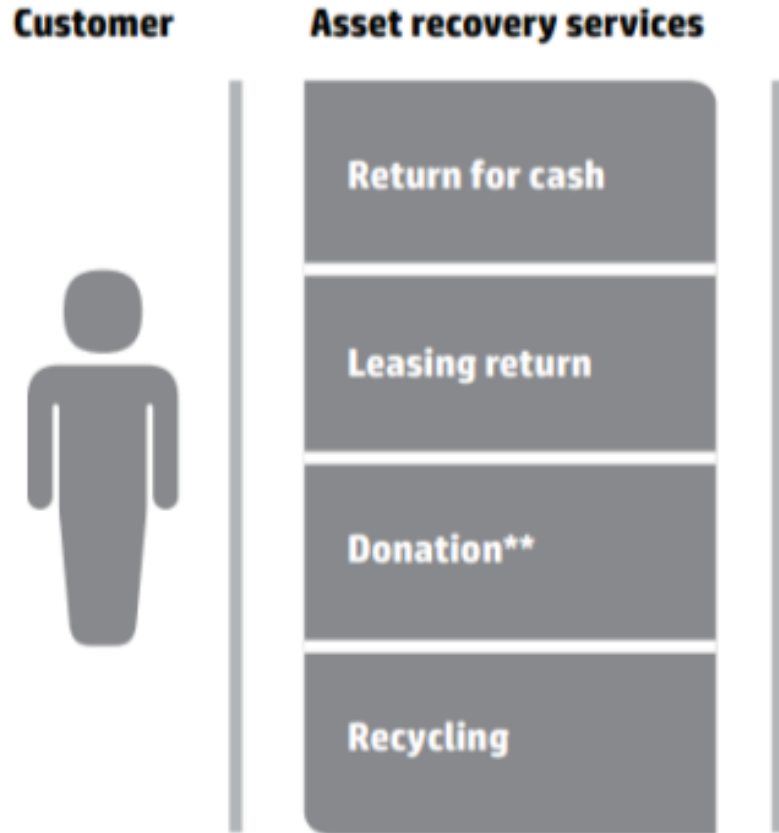
Reducing Costs



- Cash for old equipment
- Options for purchasing used equipment
- Low cost/free recycling

HP Planet Partners – US

hp.com/recycle



Services offered

- Take out
- Trade-in
- **SMB & Consumer Buyback**
- Revenue share
- Purchase price
- Lease return

- National Cristina Foundation
- **Consumer Buyback**

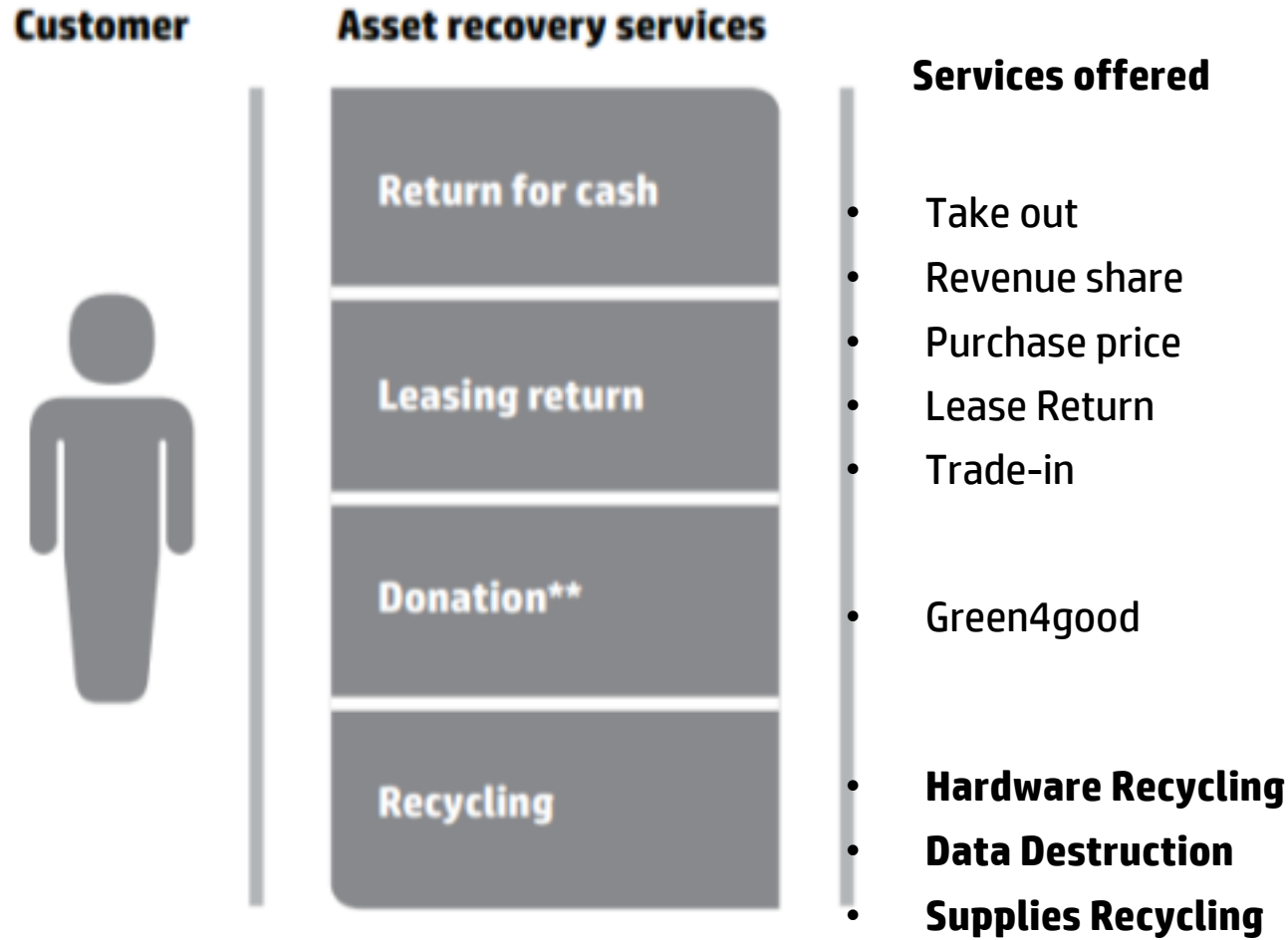
- **Hardware Recycling**
- **Data Destruction**
- **Supplies Recycling**

* Segments in this graphic are not drawn to scale.

** The relationship is directly between customer and charity.

HP Planet Partners – Canada

hp.com/recycle



* Segments in this graphic are not drawn to scale.

** The relationship is directly between customer and charity.



HP Planet Partners – Latin America

hp.com/la/reciclar



Customer



Asset recovery services

Return for cash

Leasing return

Recycling

Services offered

- Lease Return
- Asset recovery (Mexico only)

- **Hardware Recycling**
- **Supplies Recycling**

Hardware recycling available in:

Brazil, Colombia, Mexico, Puerto Rico & Peru

HP ink & LaserJet toner cartridge recycling in:

Brazil, Mexico, Puerto Rico & Panama

HP LaserJet toner cartridge recycling in:

Chile, Colombia, Costa Rica, Ecuador, Peru

Hardware Recycling options

Business customers

1. Recycling at a partner facility
 - All destruction done at partner recycling facilities
 - Serial number capture and certificates of destruction available
 - Opportunity to witness destruction of hard drives
 2. Onsite data destruction
 - Shredding
 - Degaussing
 - Includes serial number capture and certificates of destruction
 - Complete destruction at processing and recycling facility
- Full logistics available, including white glove service & secure transportation

Developing a recycling solution

- Work through your HP sales team to explore recycling opportunities.
- For more information visit: www.hp.com/go/businessrecycling

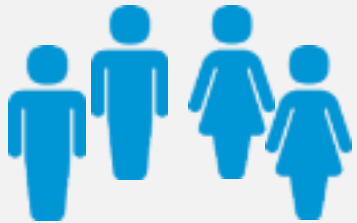
HP custom hardware recycling and on-site data destruction



HP provides a secure and responsible way to retire IT assets. HP customers can work with HP to develop a solution that meets their security and sustainability needs. Doing what is right when retiring assets has never been so easy.

Interested in learning more?

Learn more, learn how, share and collaborate



[HP Partner First Portal](#)
[HP Sales Central](#)



HP Design for Environment

<http://www.hp.com/go/dfe>



Green IT tools

[Free tools on hp.com](#)



HP Sustainability Report

www.hp.com/go/report



HP Carbon Calculator

www.hp.com/go/carboncalculator



HP Planet Partners

www.hp.com/recycle

Creating the future together

