Hewlett-Packard Canada
Case Study 4

Revolutionizing the IT industry

69

COMPANY OVERVIEW

Hewlett-Packard (Canada) Co., established in Montreal, Quebec in 1961, is a wholly owned subsidiary of California-based Hewlett-Packard Co. As the world's largest technology company, HP brings together a portfolio that spans printing, personal computing, software, services, and IT (Information Technology) infrastructure to solve an array of customer problems. HP Canada has an extensive network of dealers and authorized service personnel, and 25 offices across the country.

"At HP, we believe that environmental sustainability is not an option, but an imperative. For HP, environmental sustainability is about providing products and services that are environmentally sound throughout their life cycles, and conducting our operations in an environmentally responsible manner."[1]

– Paul Tsaparis, President and CEO, Hewlett-Packard (Canada) Co.

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1: http://www.hp.com/canada/corporate/philanthropy/wwf.html

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HP'S COMMITMENT TO THE ENVIRONMENT

HP has been an innovative leader in environmental sustainability for decades. The company is committed to responding to environmental challenges by delivering smart, practical, and groundbreaking solutions that help HP and its customers minimize environmental impacts, increase productivity and save money. The company has focused on the innovation of environmentally sound product design and performance, improving the energy efficiency of its solutions, and extending product reuse and recycling programs to its customers. HP's mission is to be the most environmentally responsible IT company by creating interest, awareness, differentiation, preference, and advantage for HP and its partners.

While the global greenhouse gas (GHG) impact of the information technology (IT) sector is relatively small compared to many other sectors involved in manufacturing and service delivery, HP is very conscious of, and has set its sights on, the important role IT can play in implementing a low-carbon economy. The Smart 2020 report by The Climate Group found that Information and Communications Technology (ICT) is a key sector in the fight against climate change and could enable emission reductions of 7.8Gt of CO_2e in 2020 – equivalent of 15 per cent of business as usual emissions.[2]

HP looks far beyond its own operations and works with key stakeholders, including its suppliers, business partners, customers, employees, policy-makers, academic institutions, and organizations, to support and encourage environmental processes, education, standards and practices in the IT sector and beyond. The importance of environmental responsibility in HP's business is unmistakable as Mark Hurd, Chairman and CEO of HP states, "Environmental responsibility is good business. We've reached the tipping point where the price and performance of IT are no longer compromised by being green, but are now enhanced by it."

2: Smart 2020, The Climate Group http://www.smart2020.org/publications/

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HP AND CLIMATE SAVERS PROGRAM

RATIONALE FOR JOINING

HP's long history of environmental leadership was not well understood by HP's stakeholders. As competitors were beginning to move into this area, HP felt the need to have its programs validated and supported by a credible third party. With HP and WWF's objectives and values well aligned, WWF's Climate Savers program was a natural candidate for HP and complemented the existing global partnership between the two organizations.

"HP has been an environmentally-sensitive company for decades; it's simply part of our culture and DNA. We take a leadership role in climate change initiatives like WWF Climate Savers, and we will continue to seek innovative ways to reduce our carbon footprint."[4]

– Mark Hurd, Chairman and CEO, HP

HP joined Climate Savers in February 2008. The company and WWF are jointly focused on reducing greenhouse gas emissions, improving energy use, using technology in conservation, and educating others to take action. Partnering with an internationally recognized and respected environmental NGO (non-governmental organization) like WWF gave HP's environmental strategy the validation it deserved and required to set the company apart from its competitors.

HP's Climate Savers commitment is unique amongst Climate Savers companies as it includes initiatives in Scopes 1, 2, and 3 of the GHG Protocol.[3] By including all three scopes, HP is addressing direct GHG emissions from operations, indirect GHG emissions from purchased electricity, and other indirect GHG emissions such as outsourced activity and product use. This is important as it enables HP to consider all areas of the product cycle, especially product use that greatly increases the impact of HP's commitments.

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3: The Greenhouse Gas Protocol Initiative http://www.ghgprotocol.org

4: http://www.worldwildlife.org/who/media/press/2008/WWFPresitem6630.html

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CORPORATE CLIMATE AND ENERGY GOALS

OVERALL FOR 2010

HP will reduce the combined energy consumption and associated GHG emissions of HP operations and products to 25 per cent below 2005 levels by achieving the following:

OPERATIONS

HP will reduce energy consumption and the resulting GHG emissions from HP-owned and HP-leased facilities worldwide to 16 per cent below 2005 levels.

PRODUCTS

HP will reduce the energy consumption of HP products[5] and associated GHG emissions through specific goals for representative product categories, including the following goal for HP's high-volume printer, server, and desktop and notebook PC families:

- **By 2011**, HP will improve the overall energy efficiency of HP ink and laser printing products by 40 per cent, relative to 2005[6]

OVERALL FOR 2012

Double voluntary purchases of renewable energy to 8 per cent by 2012 (in addition to the renewable energy available by default in the power grid).

In order to achieve these aggressive goals, environmental innovations will be made throughout every facet of the business, including operations, product design, energy efficiency, logistics efficiencies, and data-centre efficiency solutions.

   For other environmental and social goals see **Data and Goals in the Global Citizenship Report 2008**.

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72

5 & 6: Source: Global Citizenship Customer Report 2008
http://www.hp.com/hpinfo/globalcitizenship/gcreport/pdf/hp_fy08_gcr.pdf

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CORPORATE CLIMATE AND ENERGY GOALS

PROGRESS

HP has already exceeded some of its own goals and renewed them. For example, HP's goal to reduce energy consumption of volume desktop and notebook PCs by 25 per cent relative to 2005 was met and exceeded a full year and a half ahead of schedule. HP has reduced the energy consumption of its highest volume desktop and notebook PCs by 41 per cent since 2005. In addition, in September 2009, HP met its goal of reducing combined energy consumption and associated GHG emissions of HP operations and products to 25 per cent below 2005 levels by 2010, over a year early. Between 2005 and 2008 HP's combined product innovations and operational efficiencies have reduced its GHG emissions by more than 4 million metric tons. HP has reduced its energy used in operations by 9 per cent since 2005.

73

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HP'S GHG FOOTPRINT

A large contribution to HP's GHG emissions arises from the use of its products, which is part of Scope 3 of the GHG protocol. This is an area that can be complex to analyze and influence as customers' use of HP products is outside of HP's direct control. It is something that traditional sustainability programs have not addressed. However, HP feels it is essential to address Scope 3 emissions to move towards a low-carbon economy as referenced in the Smart 2020 report by The Climate Group. Other large contributors to GHG emissions include product manufacturing and product transport.

HP, as with all other companies, wields the strongest control over GHG reduction opportunities within its own operations and in employee business travel. This is particularly true as HP's long record of measuring this data has resulted in the company having a strong base from which to build on.

The table to the right outlines HP's GHG footprint and level of the company's influence in each sector.

Greenhouse gas emissions related to HP's business

CATEGORY (CLICK LINK FOR MORE DETAIL)	2008 EMISSIONS (TONNES CO_2E)	LEVEL OF INFLUENCE	OUR INFLUENCE
HP operations	1,448,500	High	We manage our facilities and data centres to reduce energy consumption
HP employee business travel	425,000	High	Our travel policies and telepresence solutions reduce business travel
Product manufacturing	3,500,000	Medium	We work with our first-tier suppliers to report and reduce their energy use
Product transport	1,800,000	Medium	We optimize distribution networks and convert to lower-energy transport modes where appropriate
Product use	Roughly an order of magnitude more than HP operations	Medium	We design products and offer services to use less energy, but customers determine the use of our products
Product recycling (CO_2e avoided)	300,000	Medium	We offer reuse and recycling services, but customers determine the treatment of their products at end of life

Source: HP Global Citizenship Report 2008
http://www.hp.com/hpinfo/globalcitizenship/gcreport/

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THE HP STRATEGY

OUR HOUSE, YOUR HOUSE, OUR WORLD

HP's environmental strategy incorporates all aspects of its sustainability journey from its own operations, through its supply chain, to its customers, the community, and the economy. HP goes beyond business as usual by not only reducing its own GHG footprint but also that of its clients and the world in which they live. HP focused first on identifying and implementing GHG reduction opportunities within its operations and supply chain. It then looked outward to move its community and business environment to a low-carbon economy. The figure to the right demonstrates HP's environmental strategy.
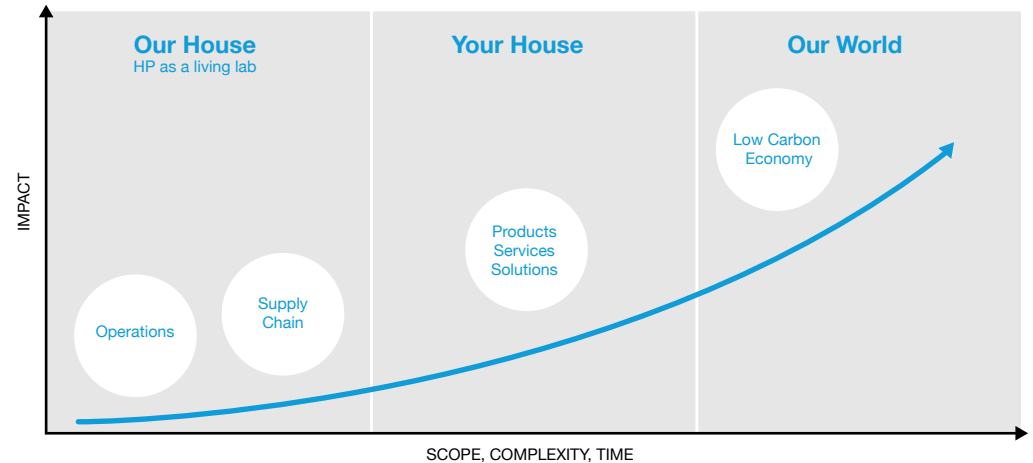
BUSINESS DRIVERS
• **Cost reduction**
• **Customer opportunity**
• **Productivity**
• **Environmental stewardship**

PRIORITIES
• **Energy efficiency**
• **Resource conservation**
• **Reuse/Recycle**
• **Sustainable IT ecosystems**

HP's Environmental Strategy

Helping Achieve Business and Sustainability Goals

Source: Hewlett-Packard

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HP'S HOUSE: OPERATIONS

HP identified areas critical to achieving its goal to reduce energy consumption and the resulting GHG emissions from HP-owned and HP-leased facilities worldwide to 20 per cent below 2005 levels by 2013. Two key areas include: consolidating its data centres and expanding its use of renewable energy sources.
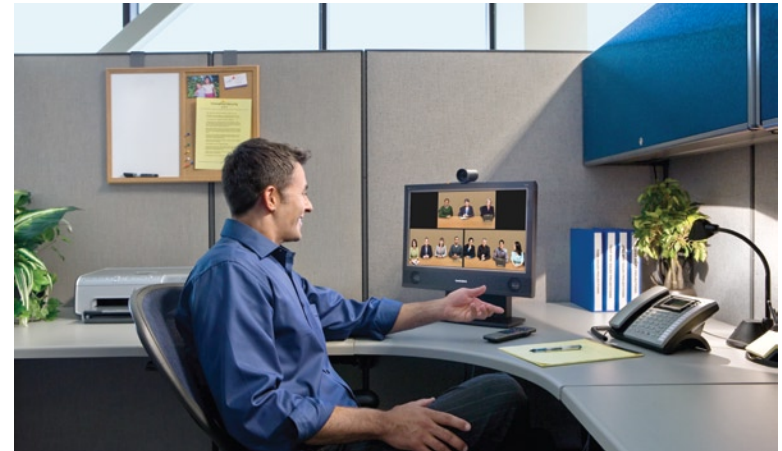

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76

INITIATIVE 1:
CONSOLIDATION OF EXISTING FACILITIES

BACKGROUND

Ninety eight per cent of HP's Scope 1 GHG emissions are generated by its operations around the world. Recognizing this, in 2005 HP took the first step towards consolidating its 85 data centres worldwide into three data centre pairs.

PROCESS

The three-year process embraced data centre consolidation, platform consolidation and standardization, and large increases in processing power, storage capacity, and network bandwidth. By 2008, HP had consolidated 85 data centres worldwide into six next-generation data centres in three U.S cities, built to the highest energy-efficiency standards.

OUTCOMES

As a result of the consolidation, HP reduced its annual energy consumption by 60 per cent, its networking costs by 50 per cent, and its business technology operational spending from 4 per cent to 2 per cent of revenue.

HP also realized a net reduction of 2.9 million square feet in its real estate holdings, at a time when its business was growing, by ensuring optimal efficiency in the use of facilities. In addition, the consolidation also improved service levels by eliminating older technologies.

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HP'S HOUSE: OPERATIONS

INITIATIVE 2: HALO TELEPRESENCE

In addition to its facilities, HP also recognizes the great GHG impact of employee business travel, in particular air travel. Using its IT expertise, HP developed an innovative solution to address this issue.

BACKGROUND
HP's Halo Telepresence is a life-like virtual meeting experience, enabling effective collaboration among geographically separated teams and individuals. The use of HP's Halo Telepresence can greatly reduce financial and environmental costs associated with business travel and is strongly encouraged within HP.

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PROCESS
When HP employees request travel arrangements to any of the 34 destinations in 14 countries where the company has Halo Studios, the travel system prompts them to book a Halo studio instead. By implementing this technology, HP estimates that each studio results in an average of one less flight per day, which reduces CO_2 emissions, saves money, and increases productivity.

OUTCOMES
Due to the increase in the number of Halo studios, HP expects to see a reduction of approximately 20,000 trips each year, resulting in the elimination of more than 39,000 metric tonnes of CO_2. This is the equivalent of taking 6,500 cars off the road for one year and produces millions of dollars in annual savings. On a per studio basis, the net CO_2e savings are more than 230 tonnes each year. In 2008 fiscal year, travel-dollar savings and the number of trips saved at HP both exceeded original estimates by 30 per cent.

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HP'S HOUSE: SUPPLY CHAIN INITIATIVES

As the world's leading IT company, HP operates the largest supply chain in the technology industry, spending over $50 billion U.S.. HP has long recognized the enormous impact wielded by its supply chain and has a legacy of supply chain social and environmental leadership. The company launched its supply chain Social and Environmental Responsibility (SER) program in 2000 with a goal to achieve engagement, transparency, and results. HP requires its suppliers to conform to the same rigorous ethical, social, and environmental standards to which it holds itself. As a result, HP has implemented a number of GHG reduction initiatives within its supply chain, including releasing emissions data of its suppliers. In 2008, HP released a list of its top suppliers, representing more than 95 per cent of the supply chain procurement spending. This made HP the first Information Technology company to announce the emissions of its key suppliers.

In 2008, HP audited 142 suppliers at 246 facilities to ensure compliance with HP's code of conduct and incidences of non-conformance were substantially reduced. The aggregated CO_2e emissions associated with more than 80 per cent of HP's first-tier manufacturing expenditures totalled approximately 3.5 million tonnes of carbon dioxide equivalent. HP plans to use this data to incorporate energy efficiency into how it manages its first-tier suppliers.

Focusing on large suppliers is not sufficient to raise social and environmental standards in the global supply chain. Second- and third-tier suppliers must also be included for greatest impact. Because of their size, these suppliers often lack the resources or expertise to proactively meet higher social and environmental standards. Recognizing this, in 2008 HP published guidelines to help multinationals raise the performance of smaller suppliers, which are often contracted by first-tier suppliers on their behalf. The guidelines were jointly developed with the Danish Commerce and Companies Agency and were based on a study of HP suppliers in Eastern Europe. The study examined how HP's supply chain SER program equips first-tier suppliers to assess and train their own suppliers on effective management systems, occupational health and safety issues, and environmental practices. This cascade effect of engaging smaller suppliers is key to how HP is driving rigorous standards throughout the IT supply chain.

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HP'S HOUSE: SUPPLY CHAIN INITIATIVES

INITIATIVE 1: REDUCING GHGs IN TRANSPORTATION

BACKGROUND

Each year transporting HP's products produces about 2 million tonnes of GHG emissions. The majority of these emissions result from international air freight; smaller amounts (about 25 per cent) result from road transport and parcel freight.

PROCESS

HP has implemented a strategy focusing on transportation "modal shifts" from air to ocean and road to rail, to reduce GHG emissions. HP is also optimizing its distribution network to decrease the distance from distribution centres to resellers. In addition, the company is converting from wood to recyclable plastic pallets, which are less than a quarter of the weight.

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OUTCOMES

As a result of these initiatives HP was able to reduce 25,000 tonnes of CO_2. For example, HP's conversion to plastic pallets has eliminated 7,000 tonnes of CO_2. Also, HP has reduced CO_2e emissions by an estimated 4,200 tonnes per year through bypassing its central distribution hub in Western Europe for notebook computers coming from Shanghai en route to Dubai, Johannesburg, and Moscow.

In addition, HP was the first company to be approved by the U.S. EPA to display the SmartWay logo on its product packaging. SmartWay is a freight industry program aimed at reducing fuel consumption and lowering GHG emissions during the shipping process. In 2008, HP was honored with a SmartWay Excellence Award, indicating HP's significant contributions to a more sustainable transportation process.

Leveraging the U.S. success, HP Canada called upon local carrier J.D. Smith and Sons Ltd. to partner with SmartWay. Since much of HP Canada's product is transported by worldwide carriers already enrolled in the program, J.D. Smith's involvement was crucial to the Canadian transportation industry, as they are the largest Canadian-based carrier used by HP. In December 2008, J.D. Smith and Sons Ltd. was recognized by the U.S. Environmental Protection Agency as a SmartWay Transport Partner and as a result, more than 95 per cent of HP Canada volume is now shipped using a SmartWay Transport certified partner.

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WWF-CANADA

How Addressing Climate Change Can Improve The Bottom Line

CASE STUDY 4
Hewlett-Packard Canada

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YOUR HOUSE: PRODUCT MANUFACTURING AND DESIGN

HP's commitment to continually improve the energy efficiency of its products collectively represents HP's greatest impact on sustainability. Environmental issues have been integral to HP's product research and development programs for decades, positioning the company as a clear leader in this area within the IT sector.

INITIATIVE 1: DESIGN FOR ENVIRONMENT: PACKAGING AND RECYCLING

BACKGROUND

Environmental issues have been integral to HP's research and development programs since 1992 when it first launched its formal Design for Environment (DfE) program. DfE is central to HP's design strategy of its products and environmental issues are considered early in the design process to make the biggest impact. HP is aggressive in its pursuit of product energy efficiency and continues to invest in research and development to further improve energy efficiency. HP personal computers are leading the industry in the Gold and Silver categories of the U.S. Electronic Product Environmental Assessment Tool.

PROCESS

As part of HP's Design for Environment (DfE) program, HP's product designers identify, prioritize, and recommend environmental improvements for products in the design stage, focusing on three top priorities: energy efficiency, design for recyclability, and materials innovation. HP's global network of environmental product stewards works with design and development teams to incorporate environmental innovations into products and to measure performance.

For example, the smaller size of the HP Consumer Slimline PC saved 8,500 tonnes of metal in one year, enough to build the Eiffel Tower. By incorporating environmental considerations from the outset, HP increases efficiency throughout the entire lifecycle of a product, from design, raw materials, and manufacturing and distribution, through to use and end-of-use.

Two key initiatives focusing on GHG reduction in HP products have centred on increased use of recycled content and packaging improvements. Integrating recycled content to develop a closed loop recycling system in HP's inkjet cartridges has been an admired and recognized accomplishment. HP received special recognition from the Society of Plastics that stated that, "HP's use of recycled plastic in an application as technically demanding as its inkjet cartridges represents an unprecedented engineering innovation." GHG reductions are also a result of packaging improvements, including new designs and increased recycling content. In addition, HP received a gold Environmental Printing Award from Canada's PrintAction in 2009.

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YOUR HOUSE: PRODUCT MANUFACTURING AND DESIGN

INITIATIVE 1: DESIGN FOR ENVIRONMENT: PACKAGING AND RECYCLING

OUTCOMES

By using recycled plastic in its print cartridges, HP has used enough recycled plastic to fill more than 200 tractor trailers and create more than 200 million HP inkjet cartridges globally. HP used more than 5 million pounds of recycled plastic in original HP inkjet cartridges in 2007 alone. HP's use of recycled plastic closes the product design loop. The innovative resin formulation is competitive with virgin resins on both price and performance factors. Having such a material will greatly facilitate additional environmental design innovations at HP, such as incorporating recycled content into HP hardware. The final stage of the plastic recycling process for inkjet cartridges is through a Canadian contract manufacturer based in Montreal. HP Canada retains strong linkages to this company and is keen to promote this sustainable business development with a Canadian partner.

GHG emissions were further reduced by redesigning LaserJet packaging, producing cartons manufactured with 30 to 80 per cent post-consumer recycled content and a new design allowing for 45 per cent less packaging material (by weight) and reduced energy use during transportation. As a result, HP is continually recognized for its innovative programs and sustainable customer solutions. Product improvements also translate into savings for HP customers as energy-efficient products lead to reduced business and personal energy use.

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OUR WORLD: LOW-CARBON ECONOMY

In line with HP's strategy, the company is collaborating with a number of organizations, governments, and individuals worldwide to support and develop a low-carbon economy.

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Some of HP's collaborations and accomplishments include:

- **Being a founding member and key supporter of Electronics Product Stewardship Canada (EPSC).** This industry association pioneered a worldwide first in collaborating to develop an end-of-life treatment standard (the EPSC Recycling Vendor Qualification Standard) for waste electronics which has been implemented in 5 provincial jurisdictions, ensuring the safe and environmentally responsible management of end-of-life electronics[7]

- **HP is actively engaged with retailers and provincial governments to implement provincial end-of-life electronics programs** that have collectively diverted over 100,000 tonnes of e waste from Canadian landfills

- **Creating the only HP chair at a university** – in Corporate Social Responsibility, at York University's Schulich School of Business

- **Working with Learning for a Sustainable Future to develop Resources for Rethinking** – a bilingual peer-reviewed database of education materials designed specifically for Canadian teachers that is both grade- and curriculum-matched

- **Working with WWF-Canada to develop an online community** – The Living Planet Community – for Canadians who want to make simple but significant changes in their lifestyles to help fight climate change and reduce their environmental impacts

WWF-CANADA

How Addressing Climate Change Can Improve The Bottom Line

CASE STUDY 4
Hewlett-Packard Canada

7: Electronics Product Stewardship Canada http://www.epsc.ca/rvqp.html

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Benefits of partnering with WWF

Partnering with WWF gave HP's environmental strategy the validation it deserved and required to set the company apart from its competitors. In addition, by becoming a Climate Saver and focusing on its entire product lifecycle, HP is preparing for possible future legislation on climate change and other key areas such as IT recycling. Being ahead of the game ensures that HP retains its leadership role when the movement towards a low-carbon economy becomes more mainstream.

83

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How Addressing Climate Change Can Improve The Bottom Line

CASE STUDY 4
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KEY COMPETITIVE ADVANTAGES

• **First major computer manufacturer to support the 80Plus Program, offering 80 percent efficient power supplies on business desktop PCs**

• **First in the industry to introduce PCs to meet the more stringent hardware requirements of ENERGY STAR 4.0 with the HPCompaq dc5750 Business Desktop PC**

• **First company to carry EPA SmartWay logo on product packaging**

• **Introduced first U.S. Electronic Product Environmental Assessment Tool Gold product, the HP Compaq rp5700 Business Desktop PC, that features a five year lifecycle, 80 percent efficient power supply and components made from recycled plastics**

• **In 2009 introduced industry's first configurable ENERGY STAR 4.0 consumer desktop, the HP Pavilion a6360t , and the broadest selection of EPEAT Gold listed desktops and notebooks**

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KEY LEARNINGS AND CHALLENGES

84

LESSONS LEARNED

HP learned there is a genuine need for a standardized, scalable, online reporting protocol that would facilitate reporting down the supply chain to enable year-over-year comparisons and performance tracking. The focus on environmental issues is growing across all industries, but it is such a complex issue that many companies don't know where to begin. About half of HP Canada's suppliers have never calculated their GHG emissions. This represents a great opportunity to identify significant new reductions. Suppliers have a mutual interest and benefit in reporting, tracking, and optimizing energy use for environmental and economic benefits.

Establishing standards for end-of-life treatment of products is also critical. HP created its own standards some time ago and played a key role in achieving a common industry standard, a first in the area of Extended Producer Responsibility (EPR) in Canada. Governments are not always aware of industry leadership positions and sometimes inadvertently penalize companies that show leadership. Consequently, companies should be undertaking EPR-type programs because they support their business strategy rather than simply offering shelter from legislation.

Accounting for changes to business-as-usual was also a key lesson learned through HP's acquisition of EDS, now known as HP Enterprise Services. HP Enterprise Services provides applications, business process, and infrastructure technology outsourcing services, consulting, and support to more than 1,000 business and government clients in 90 countries. Now one of the largest segments of HP, Enterprise Services offers the breadth of HP's extended portfolio to offer the most comprehensive end-to-end IT services. The huge growth of the company in a short time frame will have a significant impact on the GHG calculations and will need to be accounted for. The Climate Savers targets will need to be adjusted to reflect this change in circumstance.

CHALLENGES

HP has encountered a number of challenges in its efforts to adapt to a low-carbon economy. Since joining Climate Savers, HP Canada has determined there is a lack of tools available for companies to calculate their GHG emissions and a lack of standardization in calculating GHG emissions for the industry.

Also, GHG reduction efforts are often difficult to prove. Measuring efforts such as paper reduction, through the use of Smart Web printing or pull-printing strategies, for example, is difficult. Demonstrating these benefits to customers can be a winning proposition for HP but the complexities of measuring reductions make it difficult to demonstrate. HP has created a tool called **The Carbon Footprint Calculator** to assist customers in both measuring their current footprint and assessing the impact that various footprint reduction strategies can make. This web enabled tool is made available free of charge and calculates the impacts for both printing and computing products.

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CONCLUSION AND OUTLOOK

With the planet being reshaped by factors such as climate change and an increasing depletion of natural resources, HP has long recognized that a strong commitment to environmental sustainability is required for the continued success of its business. HP's lead in this area has given rise to the development of innovative technologies, such as teleconferencing, innovation in product design, packaging, and waste reduction, as well as strong environmental policies in all areas, including operations, recycling, and supply chain.

Critical factors for HP's success with the Climate Savers program have been evaluating existing programs such as recycling and energy reduction, and then selecting programs with the highest CO_2 savings, enabling it to identify key areas for early success. Recycling has always been an important program for HP; the company continues to develop its recycling programs, recognizing that addressing electronic waste is important. HP has long maintained an environmental management system that requires the tracking and reporting of energy and water usage, waste generation and diversion.

Looking to the future, HP is committed to remaining an environmental leader and innovator in the IT industry. The company recognizes the need for solid groundwork to be laid internationally and nationally for climate

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change initiatives to be effective and, as a result, HP actively supports policy efforts to mitigate climate change and promote the benefits of a low-carbon economy. One priority outcome that HP Canada would like to see as a result of mobilizing the industry and government is the standardization of measurements, and the development of consistent tools and processes to ensure that organizations are measuring in the same manner.

HP will continue to build on its environmental programs and initiatives to further reduce GHG emissions, waste, and energy consumption, and to increase its recycling capabilities and the use of recycled products. HP's current environmental initiatives provide a solid foundation to meet Climate Savers commitments.

HP's rare combination of technology, size, and scale puts it in a unique position to take a leading role in the urgent drive to make meaningful and sustainable progress on the environment.

Appendix D

HEWLETT-PACKARD ENVIRONMENTAL RESOURCES

RECYCLING
HP Planet Partners

http://www.hp.com/recycle

TOOLS
HP Carbon Footprint Calculator

http://www.hp.com/go/carbonfootprint

WHITE PAPERS AND GUIDES
Green Procurement White Paper

http://www.hpcollateral.com/Files/EcoCollateral_20091120_HP_Green_Procurement_White_Paper_July_2009_EN_gmfu.pdf

Green IT for Dummies

http://www.hpcollateral.com/Files/EcoCollateral_20100115_GreenITforDummiesSpecialEdition_ylup.pdf

Green IT Action Plan for Printing

http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA2-3271ENW.pdf

Sustainability Guidance for Events White Paper

http://www.hpcollateral.com/Files/EcoCollateral_20100305_Sustainability_Guidance_for_Events_gntl.pdf

Blueprint for Reducing Energy Costs in Your Data Center

http://www.hpcollateral.com/Files/EcoCollateral_20091120_HP_CFS_EEA_Business_Whitepaper_uzlw.pdf