



The HP EliteBook 8440p was awarded Laptop's Magazine Green Choice Award and named All-Purpose Winner: "The EliteBook 8440p scored highest of all notebooks in this year's Green Choice Awards... making this business-class notebook the one to beat." (March 2010)

Is your notebook designed with the environment in mind?

Everyone benefits when your business uses technologies designed with the environment in mind. HP's environmental sustainability programs, solutions, and services support your business and our environment. HP has an extensive product stewardship program, and we have taken aggressive steps to promote Business Notebooks designed with the environment in mind.

Through intelligent design, we can reduce the environmental impact of products. HP established its Design for Environment (DfE) program in 1992 to meet this objective.

HP's product stewards and product designers identify, prioritize, and recommend environmental improvements through a company-wide DfE program. The Design for Environment program has three priorities:

- **Energy efficiency**—reduce the energy needed to manufacture and use our products
- **Materials innovation**—reduce the amount of materials used in our products and develop materials that have a reduced environmental impact and greater value at end-of-life
- **Design for recyclability**—design equipment that is easier to upgrade and/or recycle

In addition to design innovations built-in to HP Business Notebooks and other products, HP encourages sustainable practices through our reuse and recycling programs and our own commitment to reducing the environmental impact of our operations.

Reduce, reuse, and recycle

HP drives company stewardship through our HP Eco Solutions program (www.hp.com/environment), which spans product design, reuse, and recycling as well as energy and resource efficiency. HP influences industry action by setting high environmental standards in its operations and supply chain, by providing practical solutions to make it easier for you to reduce your climate impact, and by researching sustainability solutions that support a low-carbon economy.

HP was the first computer manufacturer to operate our own recycling center in 1997, and now we have the only "closed-loop" ink cartridge process on the planet. We're on our way to recycle over 2 billion pounds of products and materials.

Used equipment

HP provides a wide variety of options for you to offload used products,² including earning money for returning your qualified products:

- **HP Trade-in**—Offers you the opportunity to get the fair market value of your aging technology and upgrade to new HP technology.
- **Return for cash**—Pays you for qualified computer equipment you no longer want or need.
- **Donate**—Makes it easy to donate your used computer equipment, in partnership with charitable organizations
- **Recycle**—Provides easy ways to recycle unwanted computer hardware and printing supplies.

Packaging

HP is also committed to using packaging materials effectively—protecting our Business Notebook PCs while reducing waste. Material quantity and type, transport mode, and recyclability

Examples of HPPI – Designed for the Environment

HP Power Assistant^f	Puts you in control of your notebook's power settings. Dedicated hardware in HP notebooks makes real-time measurement of power usage a reality. One easy-to-use tool lets you conserve power, stretch battery run-time, accurately monitor power needs, and report power consumption.
HP Virtual Room	Lets you take your business places without leaving your workspace. With HP Virtual Rooms, you can connect virtually, via video conferencing, to collaborate and share in real time. Remote access saves the time, money, and resources usually spent traveling.
ENERGY STAR[®]	Saves money by decreasing energy usage and cutting utility costs, while also reducing the greenhouse gas emissions associated with energy use. With ENERGY STAR [®] qualified HP Notebooks, you can promote energy efficiency without sacrificing top features or high performance.
EPEAT[®] (Electronic Product Environmental Assessment Tool)	Evaluates electronic products according to three tiers of environmental performance: Bronze, Silver, and Gold. The complete set of performance criteria includes 23 required criteria and 28 optional criteria in 8 categories. Most HP Business Notebooks are registered as EPEAT [®] Gold in the U.S.
LED-Backlit Display	Uses less energy to light your screen than standard cold cathode fluorescent tube (CCFL) display technology in HP monitors, which accounts for a large portion of the total system energy consumption. Mercury-free LED-backlit displays are thinner, lighter, and more energy-efficient than HP CCFL displays, providing up to 90 minutes increase in battery life. ⁶
HP Disk Sanitizer^f	Wipes the hard drive at a binary, BIOS level, safely removing all data. This allows you to safely dispose of your notebook through redeployment, trade-in programs, and donations.
Ambient Light Sensor	Optimizes screen brightness based on the ambient light environment, helping to reduce power consumption and prolong the life of the battery. In most average office light conditions, enabling the Ambient Light Sensor will provide up to an hour of additional run time when compared to working at full-panel brightness.
Materials Innovation	Aims to reduce the environmental impact of HP's products and that of our customers. HP evaluates the total life cycle, environmental impact, and cost of any new materials. We strive to identify substitute materials that have lower total environmental and health impacts than the materials they replace.
HP Long Life Battery	Helps businesses reduce overall battery waste by enabling fewer batteries to be used over the life of the notebook. The HP Long Life Battery has a lifespan of up to twice as long as most Li-Ion notebook batteries. With both run-time and battery lifespan in mind, HP also offers the industry's first three-year limited warranty on the HP Long Life Battery.

influence the environmental impact of HP packaging. We are continuously working to design packaging components for ease of disposal, incorporate post-consumer recycled content in packaging materials, use readily recyclable packaging materials, and reduce box size.

Measurable results

HP is committed to increasing the volume of our products reused, recycled, and diverted from landfills. We operate recycling services in 56 countries or territories worldwide. In the United States, we also launched a buyback program in January 2009 that includes free recycling if an HP-branded system had no value for consumers.

Our goals are to recycle 2 billion pounds (900,000 tonnes) of electronic products and supplies by the end of 2010 (since 1987), and reuse 450 million pounds (200,000 tonnes) of electronic products by the end of 2010 (since 2003). In total, HP has recovered more than 1.71 billion pounds to date, and we are committed to transparent reporting of our progress toward our goals.

HP Professional Innovations designed for the environment

HP has been an environmental leader for decades. In fact, HP earned the #1 spot in 2009 and the #2 spot in 2010 on the Newsweek Green Rankings among the 500 largest U.S. companies. Every day, you work to further your business. HP works to help you lower your energy consumption by offering HP Business Notebooks with innovative technology built right in.

Why You Need HP Professional Innovations Designed for the Environment

HP is committed to providing products, services, and software to help you improve energy efficiency and meet the sustainability objectives of your business. We continue innovating, as we have since 1992 when we launched our Design for Environment program, to drive energy efficiency, reduce the carbon intensity of HP products, and help you save energy. Further progress is essential, since greenhouse gas (GHG) emissions from IT equipment are growing at about 6 percent a year in absolute terms⁸ due to the growth in IT usage.

DESIGNING FOR THE ENVIRONMENT

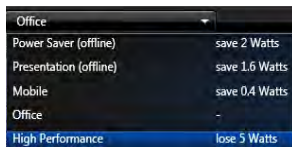
HP works with suppliers to identify materials that reduce the environmental impact of our products. We continuously modify designs and consider alternative materials. For example, the HP EliteBook 2540p Notebook PC incorporates post consumer recycled plastic resin—an industry first. A minimum of 12% of the plastic (by weight) used in the manufacturing of these notebooks is post consumer recycled plastic resin. The notebook is brominated flame retardant and polyvinyl chloride (BFR/PVC)-free, reducing HP's use of these substances of concern.¹ HP is proactively reducing the use of these materials, even where it is not legally required to do so.

Ultraportable notebooks employ fewer materials in manufacturing than previous generation HP notebooks, which in turn reduces the use of limited natural resources. Small and light packaging design allows more boxes on each truck, contributing to lower fuel consumption and greenhouse gas emissions during transportation. In addition, the HP EliteBook 2540p Notebook PC features a mercury-free, LED backlit display.

Windows® Life without Walls.™
HP recommends Windows 7.



Screenshot of HP Power Assistant & Profile list



- **Environmental leadership**—In 2010, HP was ranked No. 1 on the Corporate Responsibility Magazine (formerly known as CRO Magazine) 11th annual 100 Best Corporate Citizens List. HP gained the No. 1 spot as a result of its scores in seven criteria categories: environment, climate change, human rights, philanthropy, employee relations, financial and corporate governance. We continue to reduce the environmental impacts of materials in our products, with input from our new Stakeholder Advisory Council. Regulators increasingly ask us to share the details of our verification programs, as an example of industry best practice.
- **Commitment to a sustainable future**—In 2007, we set a goal to reduce the energy consumption of HP operations and products sold each year and their associated carbon dioxide equivalent (CO₂e) emissions to 20% below 2005 levels by 2010. We nearly met this goal by the end of October 2007—three years ahead of schedule—and have increased the target to 25% below 2005 levels.
- **Help businesses adopt sustainable practices**—Our trade-in, recycling, and donation programs make it easy for businesses to trade-up to newer, more responsible HP Business Notebooks with energy-saving features and technologies. HP Professional Innovations are designed with the environment in mind and help businesses save money and reduce energy consumption.

Change the way you work with HP Business Notebooks and Professional Innovations

HP Business Notebooks offer your business mobile computing without compromise. That's because our expansive suite of business-ready innovations for notebooks focuses on solving real problems and meeting real needs. Each HP Business Notebook comes with certain HP Professional Innovations to provide you with the right solution for your specific needs.

Change the way you work with innovations that make HP Business Notebooks more secure, easy to use, reliable, and with a reduced impact on the environment. HP gives you a broad business notebook portfolio and true flexibility tailored to your industry, workforce, workloads, and resources.

Designed for the Environment

HP Power Assistant

HP Power Assistant puts your notebook's power settings at your fingertips with one easy to use tool. It uses dedicated hardware found in HP Business Notebooks to deliver a level of accuracy and monitoring you simply can't find in other power management tools.

When your notebook is plugged into an AC power source, HP Power Assistant displays your current battery status and your current power usage in watts. When your notebook is unplugged, the HP Power Assistant displays your battery life in hours and minutes.

The Profile list lets you easily determine the impact of your current and optional power settings. Say you want to reduce your impact on the environment. Selecting the Mobile setting reduces your power consumption, thereby helping you reduce your carbon footprint. Need to stretch your battery life to make it to the end of a meeting or flight? Switching from High Performance to Mobile can help stretch your remaining battery time.

If you're serious about saving money and reducing your carbon footprint,² you need even more information about your power consumption. HP Power Assistant's Usage Details feature helps you understand and estimate what running your notebook costs when using each setting—in dollars, kilowatt hours, and even carbon emissions.² HP Power Assistant breaks down power use into bar and pie charts and can plot this data by device, system state, distribution, day, week, or month.

Materials Innovation

Materials innovation at HP means reducing the environmental impact of materials we select or already use for our products. This innovation often aligns with our objective of reducing the cost of materials and recycling. HP considers three aspects of materials innovation:

- Materials substitution and elimination
- Reduction of substances of concern
- Reduction of materials quantity

56 Number of countries or territories where HP operates product recycling services

3.6 million Number of hardware units HP recovered for reuse in 2009

500,000 Tons of carbon dioxide equivalent reduced by users of HP Power Management Technology in 2009³

131 million Kilowatt hours of renewable energy HP purchased in 2009⁴

Materials substitution and elimination goals

We may set a goal to replace or eliminate a substance of concern due to customer preferences (including criteria for eco-labels valued by our customers), legislative requirements, or because we believe it is otherwise appropriate. HP also supports a precautionary approach, by which we mean that we strive to replace a material when scientific data has established a potential health or environmental risk, even if its use is not legally prohibited. Before substituting a material for these reasons, we search for alternatives that have a lower environmental impact and meet quality and cost requirements. We work with the electronics industry and our suppliers to introduce new materials when such alternatives do not yet exist. Where possible, we aim to design products without the need for substances of concern.

Reduction of substances of concern

- HP offers select EliteBooks (8540p, 8540w, 8440p, 8440w, 2740p) and ProBooks (6540b, 6440b, 4720s, 4525s, 4520s) that are brominated flame retardant and polyvinyl chloride-free (BFR/PVC-free)¹ and use materials that reduce impact on the environment.

- The LED-backlit displays are mercury free.
- External plastics have no brominated flame retardants (BFRs), polybrominated biphenyls (PBBs), or polybrominated biphenyl ethers (PBDEs) also known as polybrominated biphenyl oxides (PBDOs).
- Batteries do not contain mercury or cadmium.
- No ozone-depleting substances are used in product manufacturing.
- Paints are lead free.
- Intentionally added cadmium is eliminated and/or reduced.

Reduction of materials quantity

HP strives to use less material in products through improvements in product design and technological advances. As the balance of products HP sells has shifted from PCs to notebooks and from cathode ray tube (CRT) monitors to flat-panel displays, material use per unit has decreased. A typical HP flat-panel display uses little more than half the weight of materials in a conventional HP CRT screen and requires approximately 60% less energy in use.

The weight difference between HP PCs and notebooks is even more dramatic—typically an 80% reduction. Combined, an HP notebook with an additional flat screen display represents only one-third of the weight of an HP PC with a CRT. This smaller size saves roughly a third of the packaging weight and helps decrease energy consumption in transport to customers.

Reduction of volumes of batteries to recycle

The HP Long Life Battery has a lifespan which is up to twice as long as most Li-Ion notebook batteries and helps businesses reduce overall battery waste by enabling fewer batteries to be used over the life of the notebook. With both run-time and battery lifespan in mind, HP also offers the industry's first three-year limited warranty on the HP Long Life Battery

Learn more about HP Professional Innovations at www.hp.com/go/professionalinnovations and HP Business Notebooks at www.hp.com/go/notebooks

1. HP offers EliteBook and ProBooks that are brominated flame retardant and polyvinyl chloride free (BFR/PVC free) on notebooks that are non WWAN; meeting the evolving definition of 'BFR/PVC free' as set forth in the "iNEMI Position Statement on the 'Definition of Low Halogen' Electronics (BFR/CFR/PVC Free)". Plastic parts contain < 1000 ppm (0.1%) of bromine [if the Br source is from BFRs] and < 1000 ppm (0.1%) of chlorine [if the Cl source is from CFRs or PVC or PVC copolymers]. Power supply and power cords are not BFR/PVC free. Service parts after purchase may not be BFR/PVC free.
2. Options vary depending on region. Hewlett Packard offers end of life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse_recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered, or disposed of in a responsible manner.
3. HP Global Citizenship Report, 2009
4. Million kWh energy and renewable energy credits, in addition to the renewable energy available by default in the power grid.
5. Power calculations and cost calculations are estimates. Results will vary based on variables, which include information provided by the user, time PC is in different power states (on, standby, hibernate, off), time PC is on battery or AC, hardware configuration, variable electricity rates and utilities provider. HP advises customers to use information reported by HP Power Assistant for reference only and to validate impact in their environment. Environmental calculations were based on U.S. EPA eGrid 2007 data found at www.epa.gov/egrid/. Regional results will vary. Requires Microsoft Windows.
6. Results were achieved by comparing two similarly configured notebook PCs running on nine cell batteries. Results may vary with 3- and 6 cell batteries, loaded applications, features and power management settings.
7. For the use cases outlined in the DOD 5220.22 M Supplement.
8. Smart 2020: Enabling the Low Carbon Economy in the Information Age, The Climate Group, a report on behalf of the Global e Sustainability Initiative, with analysis by McKinsey & Company, 2008.

