



# Motorola's Environmental Journey

Motorola is working to be part of the solution to climate change and to reduce the environmental footprint of our products, operations and supply chain. We approach this in several ways - improving the environmental profile of our products, running our operations in a safe and energy-efficient manner and helping our customers to be greener when they use our products.

## **Our environmental performance – which we report every year – is rated as best in class by respected independent monitors.**

- In 2008-09, we were selected as a member of the Dow Jones Sustainability Indexes for the fifth straight year.
- In 2009, we were included on the 100 Best Corporate Citizens list by *Corporate Responsibility Officer* magazine for the ninth year, ranking No. 5 in the environment category.
- Climate Counts, a non-profit organization that helps consumers by providing scorecards that rate companies' efforts to tackle climate change, rated our efforts at the highest category, "striding."
- Our global environment, health and safety (EHS) management system is certified to the international environmental management systems standard, ISO 14001.
- We were named as the greenest provider of wireless local area network (WLAN) equipment in a 2008 study by ABI Research.
- Our 2008 Corporate Responsibility Report is available at [www.motorola.com/responsibility](http://www.motorola.com/responsibility).
- We have received EHS awards and recognition from numerous countries globally, including Brazil, China, Germany, Israel, Japan, Mexico and the U.S.

## **We are working to make products with a reduced environmental impact.**

- We strive to use environmentally preferred materials in our products.
  - We voluntarily extended our compliance with the European Union's restriction of hazardous substances (RoHS) directive to cover all newly designed mobile phones, IP set-tops, cable modems, professional and public safety two-way radio products and many of our mobile and wireless products for the enterprise, regardless of where they are sold worldwide.
  - We are introducing alternatives to polyvinyl chloride (PVC), phthalates and brominated flame retardants (BFRs), and have begun removing them from some new parts.

- In 2009, we launched the MOTO™ W233 Renew, the world's first mobile phone made using plastics comprised of recycled post-consumer water cooler bottles.
  - Renew is also the first CarbonFree® certified mobile phone. Through an alliance with Carbonfund.org™, Motorola offsets the amount of carbon dioxide (CO<sub>2</sub>) generated to manufacture, distribute and use the phone through investments in renewable energy and reforestation.
- Most of the energy used during the life cycle of a mobile phone is wasted when the charger is left on standby (plugged in but not in use). Since 2000, we have reduced the average standby power of our mobile phone chargers by at least 70 percent.
  - Newly designed chargers use 0.10 watt or less of standby power.
  - Software in our newly designed mobile phones reminds users to unplug their chargers after use, and we ship our phones with energy-saving settings enabled.
- Our new IP set-tops meet the U.S. EPA's ENERGY STAR standard. The DCH70 set-top, introduced in 2007, uses less than half of the energy of the equivalent 1998 model.
- Our cellular base stations are designed to operate at higher ambient temperatures, minimizing and even eliminating the need for air conditioning at some cell sites. Also, power efficient traffic management techniques allow us to switch off time-slots or, depending on the amount of traffic, allocate the traffic to fewer radios, thereby further reducing power consumption during quiet periods.

## **We continuously work to improve energy efficiency in our operations.**

- Since 2005, we have reduced our carbon footprint by 20 percent.
  - In 2008, our carbon footprint totaled 535,377 tonnes (metric tons) CO<sub>2</sub> equivalent, compared to 671,791 tonnes in 2005, a 20 percent reduction.

## FACT SHEET

Motorola's Environmental Journey

### Business/Customer Inquiries:

Please contact your local Motorola representative or visit [www.motorola.com](http://www.motorola.com)

### Corporate Responsibility

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- In 2008, Motorola used 955 million kilowatt hours of energy, a 21 percent decrease from 1,207 million kilowatt hours in 2005.
- Currently, about 15 percent of our global electricity comes from renewable resources.
  - Our goal is to increase our global purchase of electricity from renewable sources to 20 percent by 2010 and to 30 percent by 2020.
  - In 2009, we were named a Green Power Leader by the U.S. EPA's Green Power Partnership for purchasing 20 percent of our U.S. electricity from wind power.
- In northern Illinois where Motorola is headquartered, 40 percent of our electricity is from renewable energy.
- In 2008, we launched an initiative to reduce environmental impact in our freight packaging by packing more products per case, double stacking pallets and using lighter cardboard boxes versus wood crates.

### **We are exploring opportunities to help our customers reduce their environmental footprint and make it easier for consumers to lead greener lives.**

- We offer take-back programs in 70 countries globally, covering more than 90 percent of our global mobile phone unit sales.
- In 2008, we collected more than 2,560 tonnes of electronic equipment waste for recycling, including take-back recycling programs for our products, internal recycling efforts and community events that we sponsored.
- Our two-way radio systems can be programmed remotely, keeping first responders on patrol longer and reducing return journeys to base.
- Our mobile computing devices and bar code scanners reduce environmental impact by significantly improving efficiency throughout our customers' operations and supply chains.
- In 2008, we began deploying TETRA base stations with hydrogen fuel cells for emergency back-up power as part of a nationwide system in Denmark.
  - Fuel cells produce little noise, reduce the risk of spills and contamination, and emit only water vapor. The fuel cells replace diesel generators, which take longer to start up, are less reliable, require more maintenance and emit greenhouse gases (GHG).

- Our wind- and solar-powered cell sites have zero emissions in operation and can be deployed in locations with limited access to or an inconsistent supply of grid electricity.
- Our wireless broadband provides rapidly deployed Internet access, leapfrogging fixed-line infrastructure.
- Our logistics technologies reduce vehicle miles and remote monitoring reduces travel, both leading to reduced GHG emissions.

### **Motorola is involved in voluntary climate change programs that promote awareness and encourage us to be transparent about our actions and improve our own performance.**

- In 2003, we became a founding member of the Chicago Climate Exchange (CCX) which is an innovative voluntary but legally binding GHG emissions reduction, registry and trading system.
  - In 2007, we committed to CCX Phase II, whereby we have agreed to track and report GHG emissions and to achieve a 6 percent reduction in our GHG emissions by 2010, below a year 2000 baseline.
  - This commitment, and the additional international operating locations it includes, makes Motorola the first global member of the CCX.
- Since 2004, we have participated in the Carbon Disclosure Project which encourages companies to report on GHG emissions and actions to mitigate them.

### **In addition to our environmental activities, Motorola has a strong commitment to improving social and environmental conditions in our supply chain.**

- We are a member of the Global e-Sustainability Initiative (GeSI), an industry effort to improve the sustainability and energy efficiency of the information and communication technology (ICT) sector.
- We require high labor and environmental standards in our own operations, making concerted efforts to drive improvement, and we expect our suppliers to do the same as reflected in our supplier code of conduct.
- We monitor compliance with our code through an assessment and audit program; we conducted 80 detailed on-site supplier audits in 2008.



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