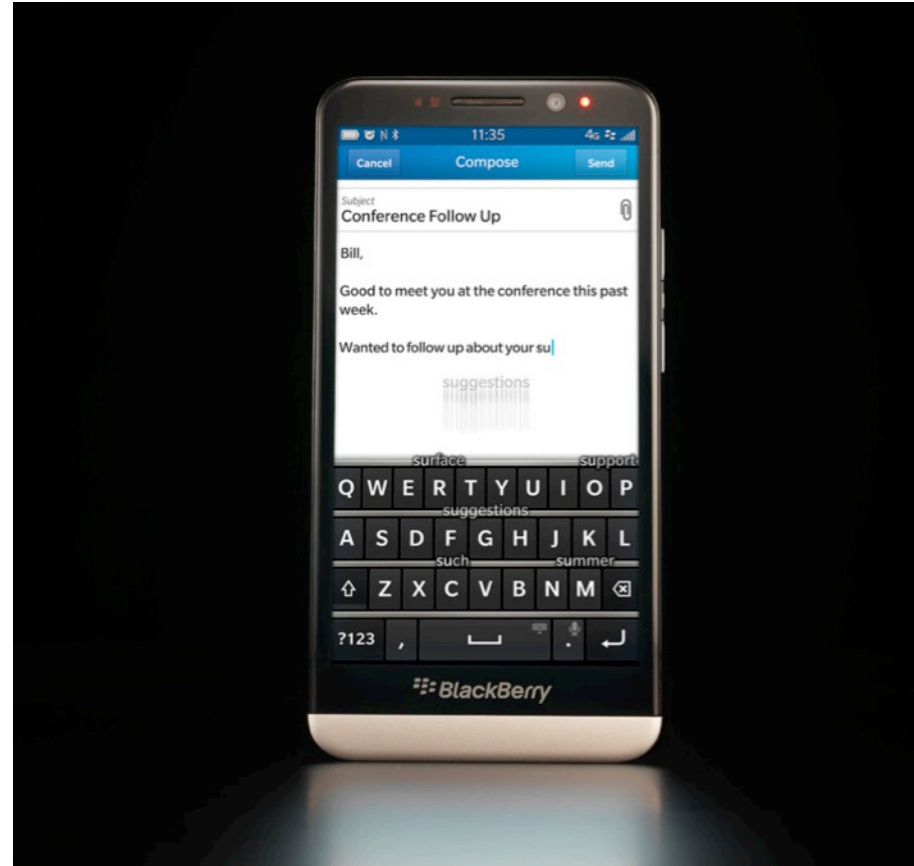


# Environmental Management and Use of ISO Environmental Standards at BlackBerry



# Agenda

- Environmental Management at BlackBerry
- Benefits to BlackBerry
- Environmental Management System
- Life Cycle Assessment
- Greenhouse Gas Emissions



# Environmental Management at BlackBerry

Environmental management for BlackBerry operations, products and services is achieved using ISO 14000 environmental standards.

**These standards include:**

- ISO 14001 - Environmental Management System - Requirement for guidance with use
- ISO 14004 - Environmental Management System - General guidelines on principles, systems and support techniques
- ISO 14040 - Environmental Management - Life cycle assessment - Principles and framework
- ISO 14044 - Environmental Management - Life cycle assessment - Requirements and guidelines
- ISO 14064-1 Greenhouse Gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals

BlackBerry's Wireless Handheld New Product Realization Centre, BlackBerry Care Repair Centre, Hardware Verification Lab and Materials Testing Labs located in Cambridge, ON Canada are certified to the ISO 14001:2004 standard.

# Benefits to BlackBerry of Using ISO Environmental Standards

- Provides practical tools for BlackBerry to identify and control environmental impact and improve environmental performance.
- Reduces environmental liability and ensures procedures to identify, track and communicate environmental laws and regulations are implemented globally.
- Provides framework for a systematic and integrated approach for environmental management, which allows environmental management to become part of the fabric of BlackBerry's business.
- Positions BlackBerry as an environmental leader and provides guidance by which to respond to environmental inquiries from customers, shareholders and other interested parties.
- Ensures a consistent approach to environmental management across multiple facilities.
- Improves efficiency and provides potential cost savings through process improvements and energy conservation.
- Promotes continuous improvement of BlackBerry's environmental performance.

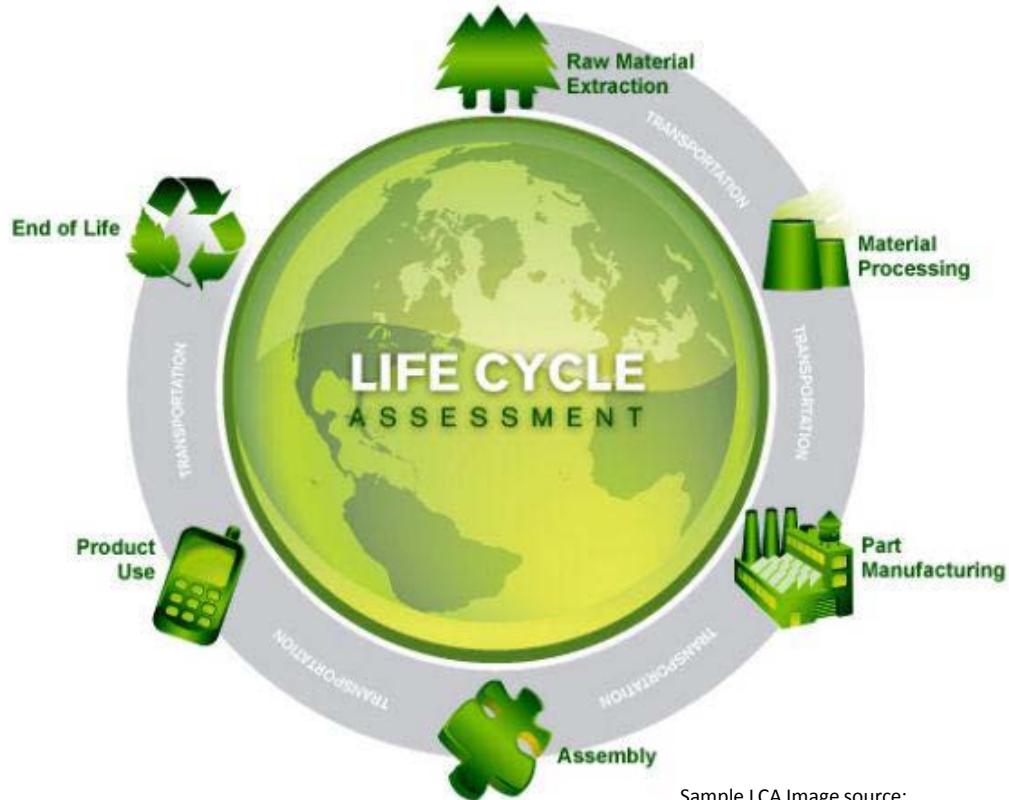
# Utilization of ISO 14040/14044 LCA Standards at BlackBerry

Life-cycle assessment (LCA) is a tool for identifying and evaluating the environmental aspects of products and services from the “cradle to the grave” from the extraction of resource inputs to the eventual disposal of the product or its waste.

## **Positive results experienced by BlackBerry:**

- Sustainability requirements incorporated into design for BlackBerry products resulting in reduction of environmental impacts.
- Increased recycled content (i.e. plastic, metal and paper) in products and packaging.
- Improved power saving technologies to increase battery life given the greater hardware complexity.
- Increased recyclability, making products easier to disassemble and recover parts or material at end of life.
- Expanded product take-back and recycling programs.

# Sample Life Cycle Assessment (LCA) Model



# Utilization of ISO 14001 Environmental Management System Standard at BlackBerry

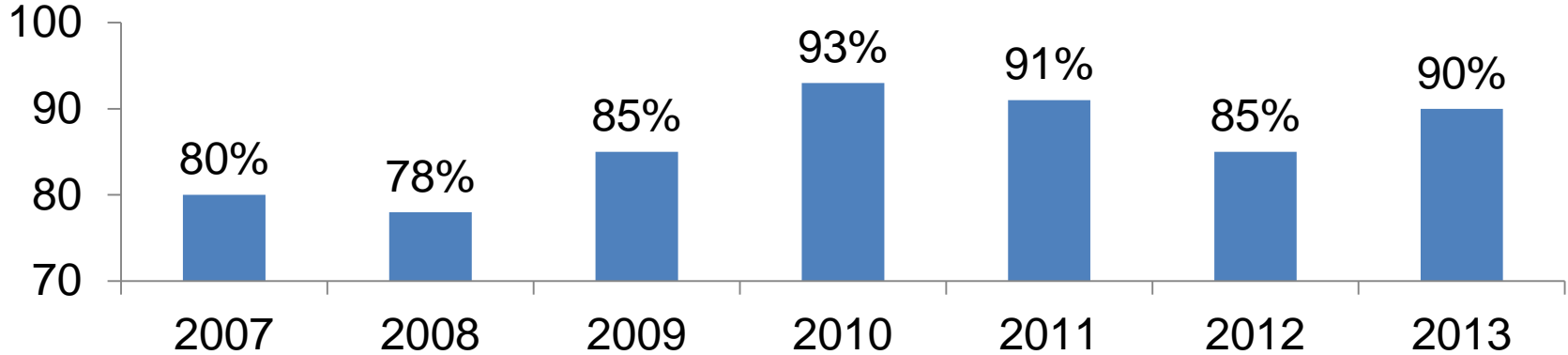
Unites strategic plans, people, policies and review mechanisms to manage and continually improve environmental issues associated with an organization's products, services and activities.

## **Positive results experienced by BlackBerry:**

- Developed a robust and rigorous environmental compliance risk management program.
- Reduced cost of waste management.
- Reduction in hazardous materials used in products and manufacturing processes.
- Savings in consumption of energy and materials.

# Waste Management Program Example

**Total Waste Diverted from Landfill**



Note: Significant reduction in e-waste generated as well as repair operations moving to another facility in 2012 impacted the total percentage of waste diverted

- BlackBerry's Waste Management Program aims to mitigate environmental risk and allows BlackBerry to partner with companies who will assist in diverting as much waste from the landfill as possible.
- BlackBerry strives for disposal to be the last option when looking at assets that are no longer needed.
- BlackBerry diversion efforts include: paper containing materials, co-mingled recyclables (plastic, metal, glass), organics, wood, metal, plastic film, production components, assembly gloves, foam, anti-static bags and e-waste recycling.

# Utilization of ISO 14064 GHG Standards at BlackBerry

The ISO 14064 series of standards is a set of tools for measuring, quantifying and reducing greenhouse gas emissions. It includes requirements for the design, development, management, reporting and verification of an organization's GHG inventory.

“What gets measured gets managed”

## **Positive results experienced by BlackBerry:**

- Identified risks and reduction opportunities within BlackBerry and its supply chain.
- Established internal GHG targets, track and report progress.
- Increased employee engagement and awareness of GHG impacts.
- Managed customer expectations and requirements.
- Increased transparency to shareholders, customers and the public.
- Improved reputation, brand and investor relations.

# BlackBerry GHG Program Example

BlackBerry calculates and reports GHG emissions associated with the following activities:

## **Scope 1**

Stationary Fuel Use (such as natural gas HVAC units, boilers, humidification and back-up generators), Mobile Fuel Use (company owned vehicles and corporate jets) and Fugitive Emissions from refrigerant leaks.

## **Scope 2**

Purchase of electricity, heat and/or steam.

## **Scope 3**

Employee business travel (air, vehicle rental, rail) and employee expensed mileage

# BlackBerry GHG Emissions Reporting

Emission Source	2008 tonnes CO <sub>2</sub> e	2009 tonnes CO <sub>2</sub> e	2010 tonnes CO <sub>2</sub> e	2011 tonnes CO <sub>2</sub> e	2012 tonnes CO <sub>2</sub> e	2013 tonnes CO <sub>2</sub> e
Scope 1	9,313	9,505	13,688	14,572	13,858	16,173
Scope 2	27,620	32,801	50,180	78,871	69,166	81,821
Scope 3	27,746	15,731	17,135	35,644	23,842	15,863

- BlackBerry has reported our corporate carbon footprint to the CDP since 2009.
- Incorporating additional facilities and emission sources into the inventory, have resulting in an increase in reported emissions.
- Access to higher resolution activity data also is reflective as an increase or decrease (improved uncertainty) in reported emissions.
- BlackBerry continues to improve data collection and management procedures each year to increase the certainty and accuracy of each GHG inventory.

# Sustainability at BlackBerry

BlackBerry is committed to operating in a sustainable way that respects the environment, employees, the communities in which BlackBerry operates and BlackBerry's business partners around the world.

BlackBerry is mindful that its products and operations carry environmental impacts. BlackBerry takes this responsibility seriously and is committed to responsible product stewardship and operations.

BlackBerry works to minimize environmental impacts through a variety of programs in product sustainability, supply chain and corporate carbon footprint.

Further information on Sustainability at BlackBerry can be found on our Corporate Responsibility – Website found at <http://ca.blackberry.com/company/about-us/corporate-responsibility.html>

Thank you

Questions/Comments?