





What comes to mind when thinking about PepsiCo?

PepsiCo has 18 global mega brands reflecting the Diversity of Products and Markets in which we Operate





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PepsiCo's Performance With Purpose Drives our Sustainability Initiatives





Regulators and NGO's have been Responding



Greenhouse gas emission surveys, as estimated by Member States (Mt CO,-equivalent)

Consumers are Holding Businesses Responsible for their Impact



What Should We do About It?

Measurement & Communication are the First Steps to Building Credibility in Carbon Reduction

- -Calculate Carbon Footprint using Recognized External Protocols •WRI or PAS 2050 •Validate via Partners and Verification Companies
- Participate in External Reporting Mechanisms
 Primarily at the Enterprise
 - Level
 - Carbon Disclosure Project
 California Climate Registry
 DJSI

 - •GR1
- -Develop and Deploy a GHG Reduction Strategy •Enterprise Level •Product Level















Beverace Industry Environmental Roundtable 9

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To Fully understand the PepsiCo Impact, we must Quantify the Life Cycle Impacts from our Products

-From Seed to Pantry and on to Disposal -All Input Streams no matter how tangential -Very Complex Process



We have Co-Developed a Refined LCA Process with Columbia University to Shorten the LCA Process and Reduce Complexity

- 1. Develop a Comprehensive Bill of Materials
- 2. Develop a Process Map
- 3. Collect Emissions Data
- 4. Gap Analysis (Screening Map)
- 5. Gap Filling
- 6. Calibrate and Communicate



PepsiCo is the first Company in North America to Certify a Product Level Carbon Footprint

- CO2e per 64 Ounce Gable Top Container
 - 1700 Grams
- Calculated in Partnership with Columbia Earth Institute and the Carbon Trust
- Follows Carbon Trust Certification Label on packs of Walker's Crisps in the UK





LCA results across all of our products show where reduction opportunities are concentrated

Mostly Upstream



Mostly Downstream



How do we lighten our Footprint?



Beginning in our own House: Greening Our Company Controlled Operations



Participating in Sector Specific initiatives such as BIER ensures alignment with methodologies and results

What is BIER?

A partnership of leading global beverage companies working together to advance the standing of the beverage industry in the realm of environmental stewardship.



The BIER Mission ensures that Sector LCA's follow a common method and Data Management Structure



PepsiCo is engaged in the CDP Supply Chain Initiative to Understand Supplier Carbon Reduction Capability

- Participation is Up Dramatically
 - 90% in 2009 vs 57% in 2008
 - Majority of Respondents have calculated Scope 1 and 2 emissions
- Risk Assessments agree with our own
 - Cap and Trade
 - Extreme Weather Events
 - Consumer Preference Shifts
- Life Cycle Assessments are Underway
 - Orbis Example: Re-Usable Plastic Shells and One Way Corrugated Packaging



Supply Chain Engagement and Participation in Sector Initiatives lead to a more rapid Greening of the Supply Chain



- Carbon footprinting is key to understanding your complete impact
- Partnering with Academic, NGO and key stakeholder groups informs your LCA process and provides credibility
- Participating in Sector Specific Industry Groups and Initiatives are key to ensuring credibility and best practice sharing
- Supply Chain engagement must be multi-faceted and provide for differing levels of engagement

PepsiCo's responsibility is to continually improve all aspects of the world in which we operate – environment, social, economic – creating a better tomorrow than today.



"Performance with Purpose is at the foundation of every aspect of our business. Indeed, financial achievement can and <u>mustgo</u> hand-in-hand with sustainability. We integrate a commitment to human, environmental and talent sustainability into all of our operations. Doing so creates a blueprint for PepsiCo to develop, manufacture and sell our products in a sustainable way, gives us a competitive advantage in markets all over the world, which in turn drives long-term growth."