

The Sustainability Consortium

ELECTRONICS SECTOR UPDATE

April 7-8, 2010

Computing Pilot Project

1st Pilot Product Type | Desktops, laptops, and monitors

Initial Recommendations by | Q4, 2010

Team |

<i>Industry/Retail</i>	<i>Academia</i>
Best Buy	ASU
Dell	UC Berkeley
HP	MIT
Intel	CMU
Toshiba	
Walmart	<i>Partners</i>
	EPA
	EPEAT/GEC
	Carbon Trust

2010 Electronic Sector Priorities

- Directly leverage EPEAT criteria for appropriate aspects of notebook, desktop PCs and computer monitors.
- Emerging focus areas for research/development:
 - Product carbon footprint proxy methodology
 - Performance metrics for ethical sourcing
 - Materials selection
- Develop draft index for pilot products integrating research and relevant existing standards (e.g. EPEAT)
- Sustainability Consortium review electronic sector outcomes by August 2010

Background on proxy research: PAIA

1. What do we want to know?

Levels of Aggregation for Results

→ **Product category** (e.g., electronics)

→ **Product type** (e.g., laptop)

→ **Product species** (e.g., 15" laptop)

→ **SKU-specific** (e.g., HP or Dell)

Develop methods that help us understand primary drivers of environmental impact within products

2. What does this methodology do?

Inputs

Results

Product attribute to impact algorithm (PAIA)
Mapped with past LC inventory and impact assessment data

3. How does the methodology work?

Inputs

Results

Training LCAs* (LCA 1, LCA 2, LCA 3)

Existing LC tools

Attribute-to-Activity Model (BOA)

Inventory LC (BOA)

Impact Assessment Model

