

Towards an Upgraded US LCI Database

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U.S. Life-Cycle Inventory Database

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Database
Publications
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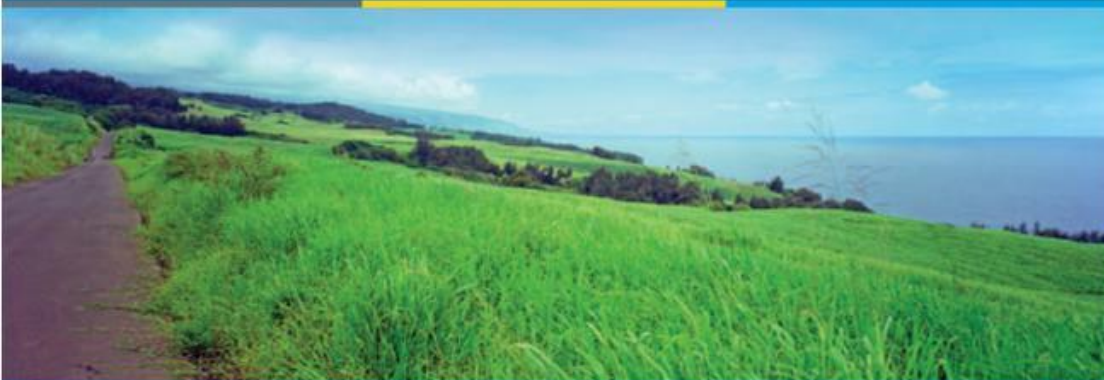
- Database is unit-process oriented
- Focused on common unit processes
 - Energy
 - Materials
 - Transportation
- First published in 2003, updated in 2008
 - Update funded by US Green Building Council
- 178 processes
- Database owned by U.S. Government
- Data owned by data providers (typically industry consortia)
- Available through software vendors (SimaPro, GaBi, Quantis)

Camp Long Meeting October, 2008



- Created Camp Long Declaration
 - Develop a quality management system for the U.S. Life Cycle Inventory Database;
 - Collaborate with international efforts to facilitate data transfer among Life Cycle Inventory databases;
 - Develop systems to assure the ongoing sustainability of the U.S. Life Cycle Inventory Database; and
 - Communicate these efforts to all interested parties.
- Signed by 28 attendees





U.S. LIFE CYCLE INVENTORY DATABASE ROADMAP

Consistent Feedback

- High quality data
- More data, more unit processes
- Free data

Stakeholder Meeting 18 February 2009

- Preceded by online survey
- Sought input from stakeholders
 - Technical
 - Non-technical
 - Government
 - NGO

US LCI Database Committee of American Center for LCA

- Met monthly between Jan 2009 and December 2009
- Produced three documents:
 - Requirements for US LCI Database
 - Data Quality Plan for US LCI Database
 - Applications for the US LCI Database
- Unfunded volunteer effort



The people who did the work

- Alberta Carpenter, NREL
- Andreas Citroth, GreenDelta
- Nuno da Silva, PE-Americas
- Michael Deru, NREL
- Tom Gloria, Industrial Ecology
- Mark Goodkoop, PRè Consulting
- Neil Huizenga, Microsoft
- Pascal LeSage, Sylvatica
- Jeff Rice, University of Arkansas
- Rita Schenck, IERE

Near term plans

- NREL Advisory committee being formalized
- Draft Protocols under revision using NREL consultant
- DOE/EPA/NREL workshop (March 2010)
 - Input on protocol development to meet the needs of industry, NGO and government initiatives



Next Steps for Database

- Revised database management plan
 - Formal data review protocol
 - Data acceptance plan
 - Data revision plan
- Expand database with new data
- Coordination with international databases
 - Talking with UNEP Life Cycle Initiative, EcolInvent, European Commission, and others
- Data roll-up tool proposed
 - Provide “material” and “product” LCI data
 - Examples: dimension lumber, roof truss

For more information

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