3 key aspects to make LCA a success

Case study of the LCA of Veolia's bottom ash recycling treatment CEWEP Residues Conference, 25/09/2024



Agenda

Why an LCA?

3 key aspects to make LCA a success

Conclusion





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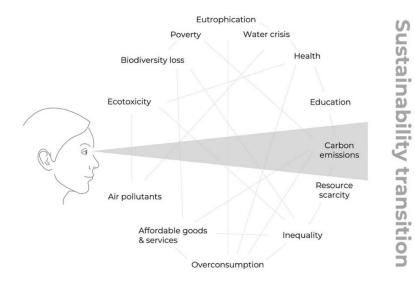
Why a multi-indicator analysis?



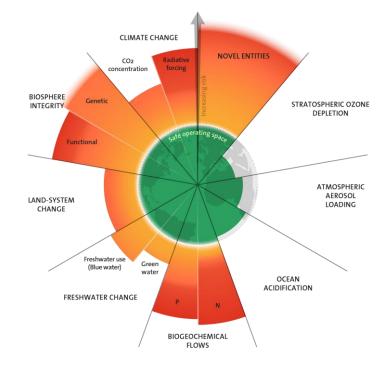


There is more than CO2 and climate change.

Carbon Tunnel Vision



Planetary boundaries



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3 key aspects



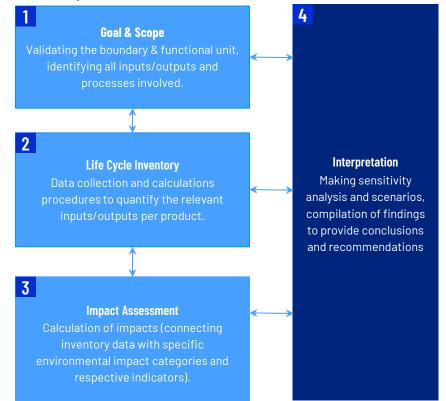
1. Data quality

The higher the quality of the data is, the more reliable the results are.

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	Low quality: Secondary data	Increased granularity: Primary data	Best practice: Supplier-specific data
Example based on Veolia's case study	Average downstream treatment of recovered metals (proxy found in the litterature)	Quantity of recovered metals per ton of bottom ash and treatment	Umicore specific LCA
	No primary data is available so secondary data is found in the litterature	More accurate but impossible to differentiate between two suppliers	Supplier-specific environmental impact per kg of non-ferrous metals recovered from bottom ash
	Sufficient to assess a first order of magnitude but low reliability		
	Low granularity, High uncertainty	Medium granularity, Medium uncertainty	High granularity, Low uncertainty

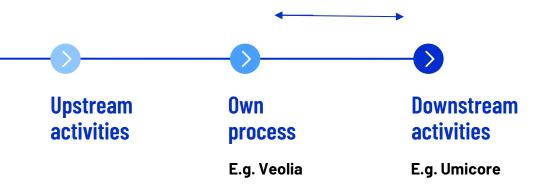
2. Iteration

LCA is an iterative process and it is a snapshot in time.



3. Collaboration in the value chain

Collaboration in the value chain is key to improve data quality.



Your LCA results can help to improve your supplier/client's LCA and vice versa. LCA results sharing increase trust among tiers, transparency while protecting confidentiality.

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Conclusion



Data quality, iteration and collaboration are 3 key aspects to make LCA a success in your sustainability journey.

Thank you



Contacts

