

65th LCA Discussion Forum

How suitable is LCA for Nanotechnology assessment?

Overview of current methodological pitfalls and potential solutions

Wednesday May 24, 2017; 08:30 h – 17:15 h
Empa Akademie, Dübendorf

Abstract



Ten years ago, participants to an international workshop in Washington D.C. on “Nanotechnology and Life Cycle Assessment” concluded that, *a priori*, the LCA ISO framework is fully suitable for the assessment of nanomaterials and nanoproducts, despite notable shortcomings in the availability of inventory data and missing evaluation instruments for impact assessment. Since then, various actors have worked extensively on these aspects with the goal of ensuring that traditional & nano-specific environmental issues can be assessed within a unified, comprehensive and consistent framework.

This discussion forum will provide an **overview of the key challenges that face practitioners and data providers when undertaking LCA of nanotechnology** and will **present possible solutions.**

Program Overview (Draft)



Welcome & Introduction

Part I – Perspectives on environmental assessment of nanotechnology

- State-of-the Art / Challenges when applying LCA
- Regulatory Perspective / Industrial Perspective

Part II – Prospective modelling (for nanotechnology)

- Prospective modelling concepts
- Uncertainties in such models

Part III – Impact assessment methods for nanotechnology

- (eco/human) toxic effects of nanoparticles (limits, gaps)
- Integration of fate and toxicity of nanoparticles into LCIA framework

Part IV – Combining LCA and risk assessment for nanotechnology

- Merging / confronting various concepts, approaches

Closing Remarks

There is open space for
your contribution ...!

more Information (soon) at
www.LCAforum.ch

*... hope to see you on May 24, 2017
here in this room again !*