



Life Cycle Analysis for Carbon Capture & Utilisation

Tuesday 6 June 2017

Workshop Programme

Albert Borschette, Room 1D
Rue Froissart 36
1040 Brussels

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- 08:15-08:45** **Welcome Coffee & Registration**
- 08:45-09:30** **Opening Session**
Kyriakos Maniatis, EC, DG Energy
- Preparing the policy**
Robert Edwards, DG JRC, ISPRA, "*Proposed principles for calculating emissions from RES fuels of non-biological origin and CCU fuels*"
- Keynote presentation**
Andrea Ramirez Ramirez, TU Delft, "*BIO+CCS+CCU? The need for unconventional ventures to reach climate targets*"
- 09:30-10:30** **Point of Departure:**
Nils Rettenmaier & Thomas Fröhlich, IFEU, "*LCA in science and policy - its power and potential pitfalls*"
Gerfried Jungmeier, Joanneum Research, "*Principles and Examples for LCA based CO₂-Counting for CCU*"
Georg Markowz, Carbon CEEnergy, "*Special challenges in LCA for CCU based on use of low-carbon intensity electricity*"
- 10:30-10:45** **Q & A**
- 10:45-11:10** **Networking Coffee break**
- 11:10-12:50** **State of Affairs - Examples from LCA work on CCU**
Carlos Abanades, Spanish Research Council, "*Benchmarking CCU for climate change mitigation purposes: some challenges and pitfalls*"
Arne Kätelhön, RWTH Aachen University, "*Life Cycle Assessment of the carbon feedstock CO₂: Avoiding suboptimal incentives for the CO₂-utilization industry*"
Aïcha El khamlichi, ADEME, "*Assessing CO₂ utilisation technologies by multicriteria decision making analysis*"
Lisa Mohr, thyssenkrupp Steel Europe, "*Determination of LCI of process gases – relevant aspects from a steel producer’s point of view*"
Nicholas Avery, EUROFER, & Eric De Coninck, ArcelorMittal, "*LCA of steel industry co-products with examples of CCU applications*"



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12:50-13:10 Q & A

13:10-14:00 Lunch Break

14:00-15:00 State of Affairs - Examples from LCA work on CCU (continued)

Jose-Luis Galvez-Martos, IMDEA Energy, "*Environmental assessment of a CCU process for the production of a cementitious material*"

Benedikt Stefansson, Carbon Recycling International, "*LCA for CO₂ to Renewable Methanol: experiences and perspectives*"

Andreas Bednarz, COVESTRO, "*Utilization of Carbon Dioxide as Integral Part for the Polyethercarbonate Polyol cardyon™*"

15:10-15:30 Q & A

15:30-16:00 Coffee break

16:00-17:20 Lessons learned

Tom Bradley, NAREC, "*Benchmarking LCA for Algae: approach, experiences and results*"

Panel Discussion

Maria Velkova, EC, DG CLIMA,

Jan Theulen, HeidelbergCement

Tom Bradley, NAREC

Andrea Ramirez Ramirez, TU Delft,

Uwe Fritsche, IINAS,

Moderator: Martin Baitz, Director Content, thinkstep

17:20-18:00 The Way forward and working methodology

Issam Dairanieh, CO₂ Sciences, "*Market potential and environmental impact of CO₂ conversion technologies*"

Kyriakos Maniatis, DG Energy

18:00-18:05 Closure of the Workshop