EMP E
Energy Modelling Platform for Europe

REEEM

Venue: Brussels **Date: 18.05.2017**

Focus Group: Modelling environmental impacts and externalities

Introduction:

Enabling prospective life cycle assessment of energy systems: modelling structure and data needs.

Objective of the focus group:

- Set out the method/tool requirements for comprehensively assessing environmental impacts of energy systems
- Identify challenges in (1) building the assessment model structure (coupling of energy systems and trajectories with LCA), and (2) getting the right data (with spatiotemporal needs)

Key questions for discussion:

- What LCA needs?
- What energy modellers can give?
- Identification of gaps between the two & how to abridge them

Schedule:

- Introduction to the focus group format, aims & objectives

Role of LCA in environmental impact assessment of energy systems (45 min.)

- presentation: intro to LCA and rationale for using LCA with energy systems (15 min)
  - 2 distinct focuses: (i) technology level (e.g. assessment of a power plant) (ii) entire large-scale systems (e.g. national or regional transport systems or electricity supply systems)
  - Q/A discussion and clarification (30 min)

Assessment model structure (60 min.)

- Presentation: link LCA to energy systems, with example as in REEEM, modelling of system characteristics and data needs (10-15 min.)
  - Model architecture for entire large-scale system assessment
  - How do we address spatiotemporal aspects
- Discussion mainly revolving around model structure (if any improvement suggestions or other tried approaches) and data needs (45 min.)

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