



Session 1

Regulatory Framework and Regulatory Agency Needs

Session Objectives

- What are the Regulatory Agency Needs? Do we have enough data now to answer the needs? If not, what data are required?
- What are the RFS2 and LCFS requirements and how are they calculated? What are the uncertainties? How can the uncertainties be minimized?
- What are the most important data requirements and what are the future research needs?

Chairpersons:

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Highlights and Learnings

- EPA has identified ‘issues’ in LCA methodology and modeling assumptions that need more consideration
- CARB regulation requires 10% reduction in Carbon Intensity (CI) by 2020 based on full LCA including direct and indirect LUC
- In Europe, 10% (energy basis) renewables in road fuels by 2020, with 35% min GHG savings, 50% min in 2017 and 60% for new installations
- Assumptions on international Land Use Change could be improved. Additional data and research are urgently needed
- LCFS implementation: issues being addressed include more fuel pathways, sustainability issues, and credit system reporting
- Transparency: Peer review on critical aspects of LCA is important and helps identify improvement opportunities and research needs



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Gaps Identified

- Clear and implementable methodologies for LCA assessment
- Clarification of assumptions and inputs to LCA models
- Modeling of land use effects, especially ILUC and use of satellite data
- Modeling of soil N₂O
- Integration of different models, including a greater focus on economic issues
- Validation and verification of model outputs
- Biofuel/biomass sustainability criteria and methodology
- Data gathering for uncertainty analysis