

CARB LCFS expert working group meeting

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- UPDATE FROM EUROPEAN UNION

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I EU policy and measures: general

**II EU policy and measures: land use
change**

**III Analytical work on land use
change: state of play**

I) EU policy and measures: general

- * Three **binding targets** for 2020:
 - 20% share of renewable energy in **overall energy consumption**
 - 10% share of renewable energy in **transport**
 - 6% reduction in **unit GHG emissions** from transport fuels (compared to 2010)
- * **Biofuels** count for all 3 targets
- * To count, biofuels must fulfil **sustainability criteria**

EU sustainability criteria for biofuels:

- no raw material from **high-carbon-stock** land
- no raw material from **highly biodiverse** land
- **minimum GHG saving** compared to fossil fuels (35%, rising to 50% in 2017 and 60%, for new plants, in 2018)
 - GHG impact of biofuels calculated on life cycle basis (data source is the "JEC" well-to-wheel study: <http://ies.jrc.ec.europa.eu/WTW>)
 - method for fossil fuels not yet fixed
- a simple **reporting requirement** on further social/ environmental impacts (probably working through "voluntary schemes" like the Roundtable on Sustainable Palm Oil)

II) EU policy and measures: land use change in the biofuel sustainability scheme

- Raw materials may not come from converted high-carbon land
- Where raw materials come from any type of land whose use has changed, the GHG calculation must take this into account
- In addition, the European Commission is required, by December 2010, to report to the European Parliament and Council

“reviewing the impact of indirect land use change on greenhouse gas emissions”

and

“addressing ways to minimise that impact”

III) EU work on land use change: state of play

- **“Pre-consultation”** on 7 policy options, June-July 2009
 - a GHG “factor” as in California was one of the seven
 - see http://ec.europa.eu/energy/renewables/consultations/index_en.htm
- **Modelling exercises (ongoing):**
 - IFPRI (CGE, using GTAP)
 - IPTS (PE, using AgLink)
 - Literature review
 - Review of results of modelling exercises
- Likelihood of **further consultation** before summer

Numerous modelling issues under consideration including.....

- Modelling of the impact of government policies (land use controls, sustainability)
- Modelling of the choice of biofuel
- Correct treatment of land types (e.g. recently abandoned cropland, recently deforested land, peatland)
- C stock values
- Relationship between demand for pasture and for animal feed
- Appropriate values for substitution of animal feed with co-products; for yield growth; for conversion rates (crops to biofuels)
- Is converted land less productive?
- Appropriate fossil fuel comparator
- Translating converted hectares into converted land types
- Crop production potential of Ukraine/Russia/Belarus

Thank you

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