CDM methodological approach to bioenergy projects

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CDM Methodology Framework

• Project based mechanism
  ✓ Emission reductions are estimated from individual project specific circumstances and context

• Key principals defining the system boundary
  ✓ Project emissions – all sources affected by project activity and under control of implementer
  ✓ Baseline emissions – all sources that are displaced by project activity
  ✓ Leakage – any source affected but not in control of implementer and significant
  ✓ Balance treatment for inclusion/exclusion of sources in project and baseline
**Bioenergy project categorization**

- **Biomass residue or biomass waste**
  - “Biomass residues means biomass by-products, residues and waste streams from agriculture, forestry and related industries.”
  - Emissions from cultivation or upstream processing are not considered.
  - Methodologies using biomass residue for energy are approved.

- **Cultivated biomass on land under implementers control**
  - Limited to degraded lands - Emissions from cultivation, management, and Carbon pool changes.
  - Allowed on other lands, if the activity is registered as A&R CDM activity.
  - Methodologies only for projects that use biomass for energy generation.

- **Biomass procured from markets or lands used for biomass production**
  - Emissions from cultivation of biomass and indirect land use change.
  - Non-available as method to estimate indirect land use change not developed.
Liquid biofuels approach

- **Land use change**
  - clearing of land
  - Soil carbon change
  - burning of biomass

- **Cultivation of biomass**
  - energy
  - biomass burning
  - CO$_2$ from Urea
  - Limestone use
  - N$_2$O emissions

- **Transportation**
  - Biomass
  - Biofuel

- **Conversion process / Use**
  - energy use
  - input use
  - methane emission

-Fertilizer production

-input production
Future Directions

- Apportioning of emissions to co-products and by-products
- Simplifying the methodology
  - ignoring emissions of the same magnitude in project and baseline scenarios
  - Developing default emission factors – biofuel production and petrodiesel production
- Indirect land-use change
INFORMATION SOURCE
Keep up to date

✔ CDM project search
   (http://cdm.unfccc.int/Projects/projsearch.html)

✔ Interactive map with registered project activities
   (http://cdm.unfccc.int/Projects/MapApp)

✔ UNFCCC CDM website (http://unfccc.int/cdm)

✔ UNFCCC CDM News Facility (Requirement to register as a UNFCCC CDM web site user (join) -> automatically subscribed)

✔ CDM EB meetings are web cast (internet),

✔ Reports of the EB to COP/MOP
We Invite you to be on our Roster of Experts – one can apply through
http://cdm.unfccc.int/Panels/meth/CallForExperts

Thanks

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