Methodologies for carbon accounting in project activities

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IPCC

- Assessment reports
- Special reports (e.g. LULUCF)
- Good practice guidance for national GHG accounting and projects
- You have influence through
  - Peer-reviewed publications
  - National representatives
  - Invited participation in technical meetings

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Standards for project activities

- General requirements and guidance for GHG accounting
- Procedures for validation and verification
- Registry and clearing house for ‘carbon credits’

- Compliance market – CDM and JI
- Voluntary market – VCS, ACR and others

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Sectors

National GHG reporting

- Energy Industries Solvents Waste
- Agriculture
- Land use, land use change and forestry (LULUCF):

- Forest land
- Cropland
- Grassland
- Wetlands
- Settlements

CDM

- 1-13 Energy Industries Waste etc.
- 14 Land-use, land-use change and forestry
- 15 Agriculture

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CDM LULUCF

- Only A/R -- REDD will never be CDM
- Normal-scale methodologies
  - So far only limited to terrestrial
- Small-scale methodologies (16k CERs/yr)
  - Terrestrial
  - 1 wetlands methodology

- January 2011: Normal-scale A/R methodology for tidal forests submitted to CDM

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Voluntary Carbon Standard

- Afforestation, Reforestation, Revegetation (ARR)
- Agricultural Land Management (ALM)
- Improved Forest Management (IFM)
- Reduction Emissions from Deforestation and Degradation (REDD)
- Peatland Rewetting and Conservation (PRC)
  - Expanded to wetlands???

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Content of methodologies

- Applicability conditions
  - Relate procedures provides to specific project circumstances
- Project boundaries
  - Geographical – temporal – carbon pools – GHGs
- Baseline scenarios and additionality
- Baseline GHG accounting
- Project GHG accounting including leakage
- Permanence
- Monitoring protocol

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Project (Design) Document

- Shows how the methodology is applied
  - Chapters +/- as in methodology
- Identifies the Project Proponent with title to the carbon credits issued
  - Usually: title to the land
  - National public law and procedures, and private law
- Environmental and social impacts and their mitigation

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GHG accounting

- Spatial and temporal dimensions
- Direct measurements (fluxes)
- Proxies
  - Carbon stock changes
  - Water level in peatlands – CO_2
  - GESTs (vegetation) in peatlands – CO_2 and CH_4
  - Others…
- Leakage
- Uncertainty versus conservativeness
  - Avoid complex/expensive measurements by conservatively neglecting pools and fluxes

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Blue Ca

- Initiatives towards IPC
- IPCC
  - Drawing attention towa
  - MRV-ability
- Voluntary markets
  - Pilot projects – focus o
    developing new techno
  - Explore mitigation oppo
  - Develop affordable mea
  - Develop conservative c