



Options for emissions accounting: developed country targets

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Climate Change Expert Group

Overview

New OECD/IEA paper on emissions accounting options for UNFCCC:

- Elements of a broadly-applicable accounting framework
- Accounting for transfers of market units
- Accounting for emissions/removals from the land-use sector



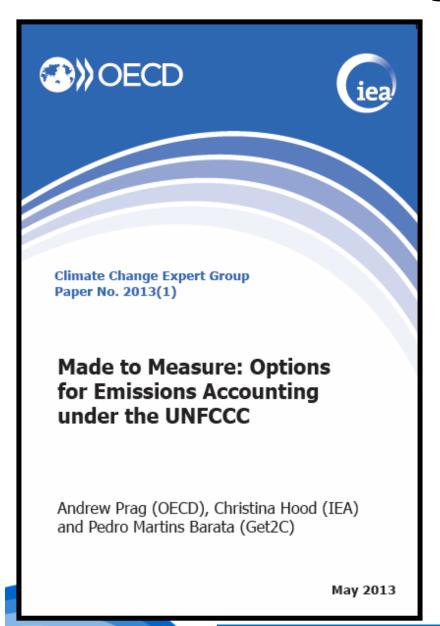


Overview

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Towards an accounting framework under UNFCCC

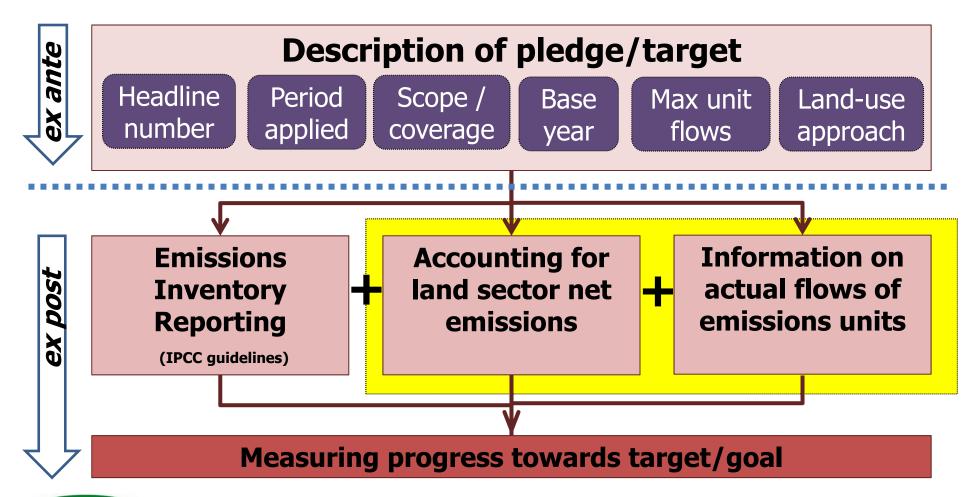


- For developed countries,
 UNFCCC mitigation reporting
 requirements include
 biennial reports and Common
 Tabular Format tables
- Apart from Kyoto Protocol, do not yet have an accounting framework for transfers of market units and land-use emissions/removals
- What do we need in addition to existing reporting requirements to build an accounting framework?



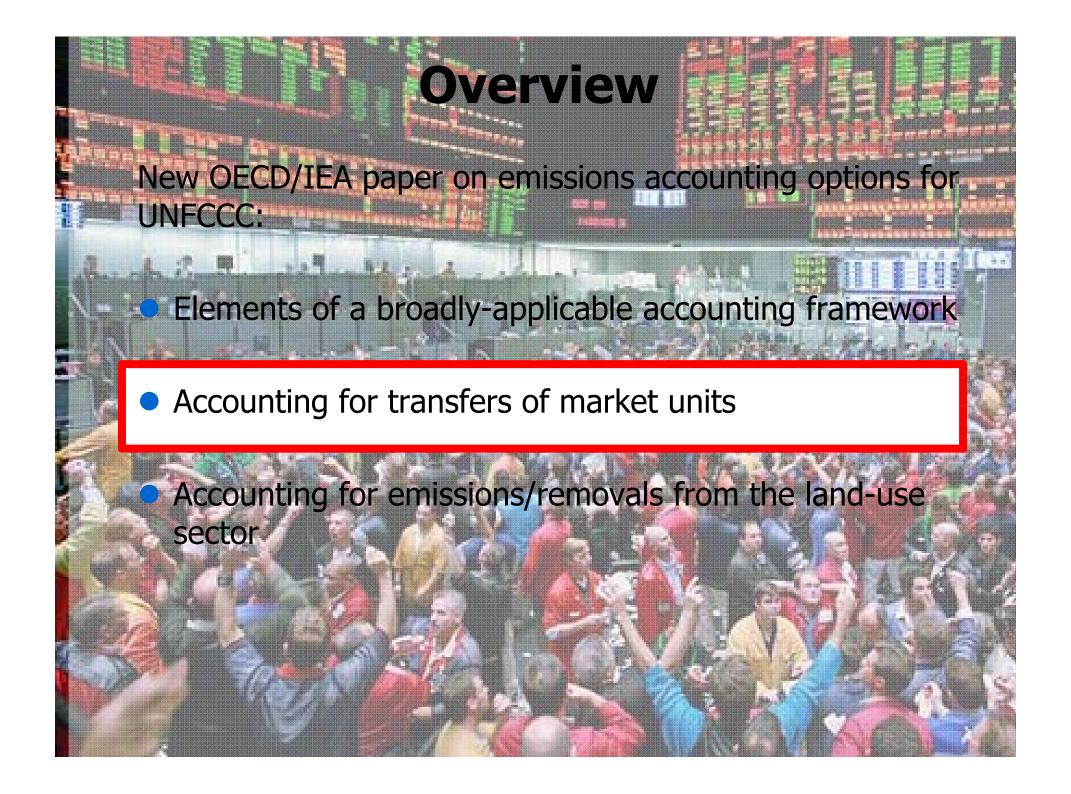


Elements of an accounting framework

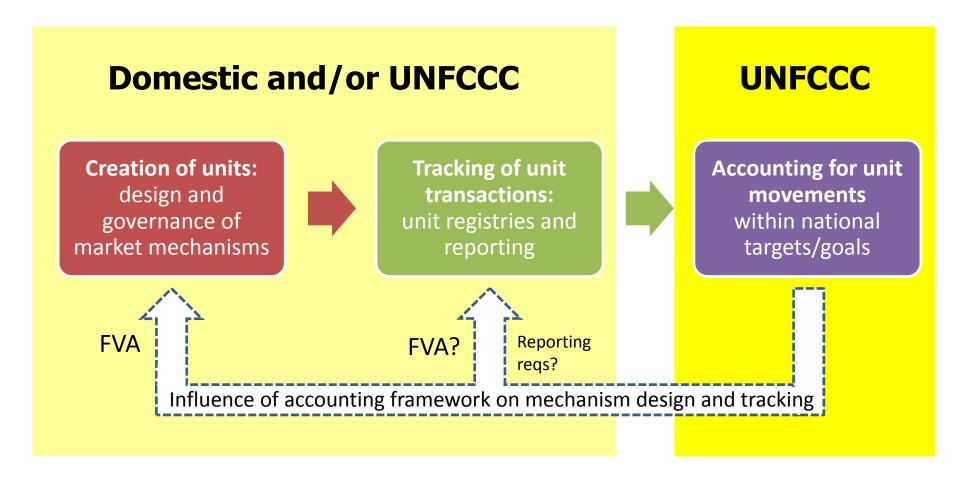








"Life cycle" of units: scope of UNFCCC accounting







Which units matter, and how to account for net flows of units?

Two conditions under which units matter for UNFCCC accounting:

"Used" by Party as **counting directly towards a target** under
UNFCCC

- Originating outside the boundary
 of the target
 (geographic, scope or temporal)
- Could include credits (offsets) AND allowance units from domestic emissions trading systems
- Three key challenges:

How to know in advance which units Parties may count towards pledges?

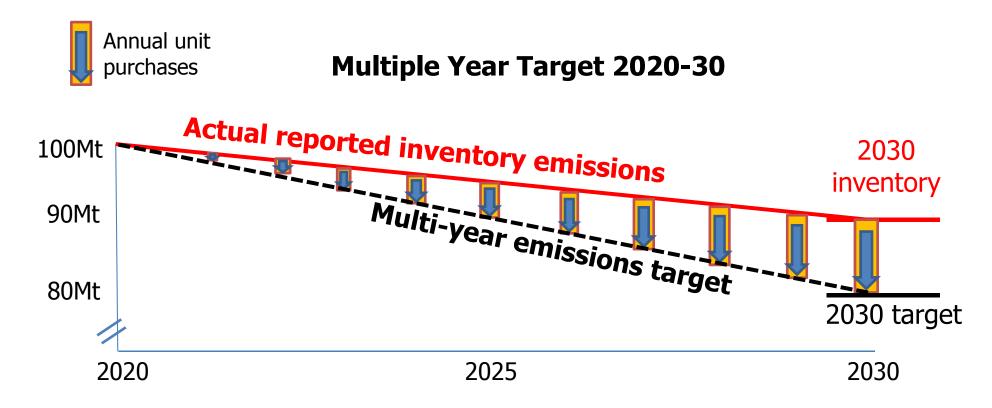
How to address
"double claiming" of
units towards more
than one country target

Does the target's period of application matter?





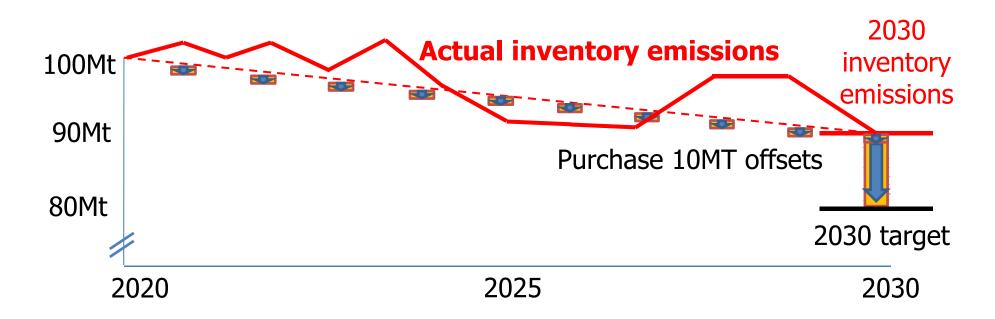
Pledges defined as single-year or multiple-year targets



- Units purchased for each year of multi-year target
- Multi-year target avoids risk that emissions in single target year are unrepresentative of general trend

Impact of a single year target

Single Year Target 2030



- If units only bought to cover 2030 emissions, overall abatement is less than for multi-year target
- Gets complex when we think about "vintages"...

Options for tracking and reporting requirements

Overall objective

Ex ante clarity on impact of unit flows on global abatement

Ex post transparency on total abatement and national goals

Option A

- Prohibit double claiming (could lead countries to redefine pledge numbers)
- No use of international units for single-year targets
- Central tracking system mandatory

Option B

- Quantify double claiming (enforce limits, or *ex ante* estimates)
- Quantify unit use toward single-year targets
- Voluntary opt-in to central tracking

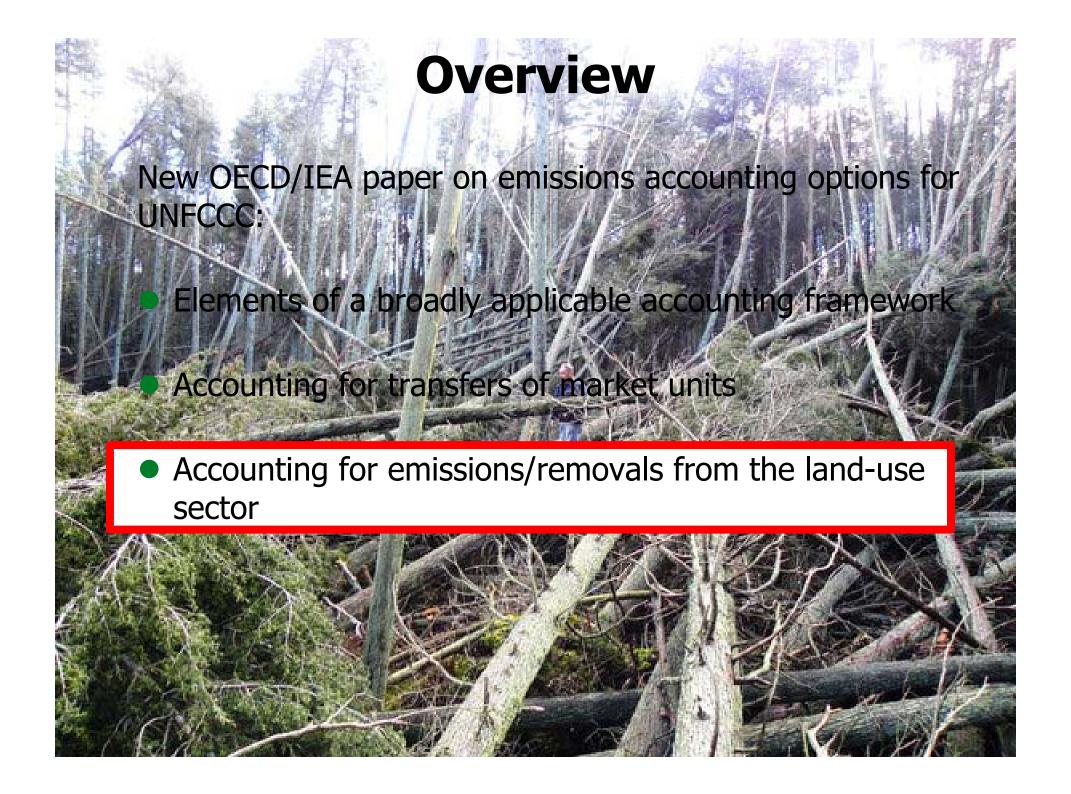
Option C

• Ex post reporting of unit flows and units used

 No central tracking system, only domestic systems







Land-use sector emissions and removals

- Land-use sector has unique characteristics:
 - Distinguishing man-made impact from natural variation in carbon stocks and emissions
 - Long time lags for policy interventions
 - Measuring removals as well as emissions
- Two main accounting approaches to date (both originating from IPCC):

Activity-based:
Used by Kyoto Protocol, with changes in second period

Land-based:
Used for Convention reporting and inventories





Options for moving forward on land-use accounting

Adopt land-based approach

- Emphasis toward more complete coverage
- Understanding data limitations

Build on **activity-based** approach

- Expanding list of activities
- Decisions on whether activities are mandatory or voluntary

Develop **completeness** approach

 Develop threshold criteria to determine sufficient coverage (regardless of approach)





Conclusions

Accounting for unit flows:

- Ex ante information important to know which units will be relevant to UNFCCC and to expose double claiming
- Period of application (single vs multiple year) important for understanding unit flows and cumulative emissions

Accounting for the land-use sector

 Developing completeness criteria to overcome landbased versus activity-based dichotomy





Thank you



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Annex: extra slides





Addressing "double-claiming"

 Accounting for developed country targets could be influenced by the source of "imported" units – depending on how other countries account for net unit flows when reporting progress

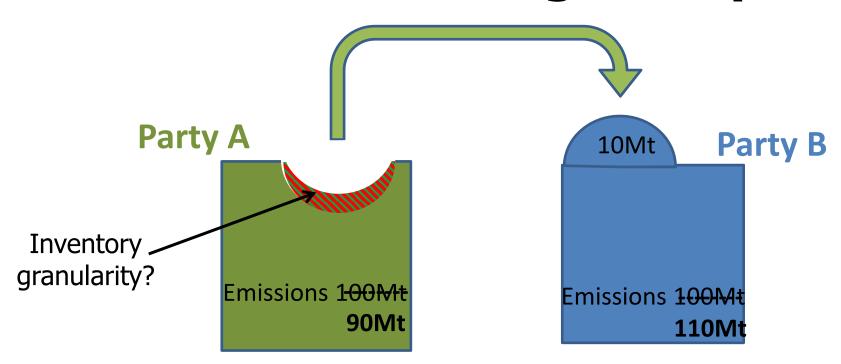


- If net export of units is not accounted for by selling country, then if units are purchased and "used" by another country there is overlap of country pledges
- Overlap = reduced mitigation effort globally
- If "double-claiming" can't be eliminated, it needs to be transparent and understood





Double claiming example



- If Party A DOES NOT account for export but party B DOES account for import, then:
 - ◆ Declared total = 90+100 = 190Mt,
 - ◆ Real emissions inventory total = 90+110 = 200Mt





Convergence on land-use baseline approaches

- Approaches to baseline
 - "Net-net": calculate net emissions in target year and compare to net emissions in base year
 - "Gross-net": calculate net emissions in target year, no comparison with base year
 - Forward-looking baselines: compare net emissions in target year to projected baseline conditions
- Convergence towards forward looking baselines (reference levels) IF credible data to back up assumptions
 - Use in forest management under KP2
 - Investigating use in REDD+
 - Proposed under voluntary crediting schemes



