

## Robust and credible accounting rules for forests

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"Meeting the EU's 2030 emission reduction targets: the role of the land use and forestry sectors (LULUCF)"
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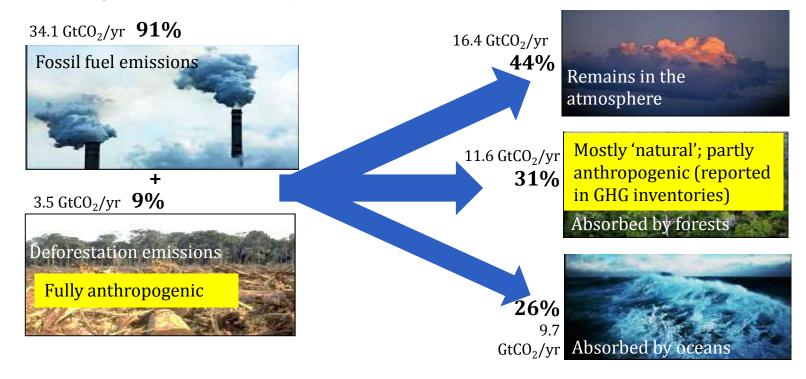
### The global context





#### Global sources and sinks of anthropogenic CO<sub>2</sub> emissions

2006-2015 averages from Global Carbon Project 2016



#### The Paris Agreement recognizes the central role of forests

- Balancing *anthropogenic* emissions and <u>removals</u> (="sink") in the  $2^{nd}$  half of the century is needed for the <  $2^{o}$ C target
- Countries asked to use all land-based mitigation options, including "actions to conserve and enhance sinks"





# How to ensure robust and credible accounting rules for EU managed forests?

Rules aimed to reflect the additional impact of human actions (mitigation)

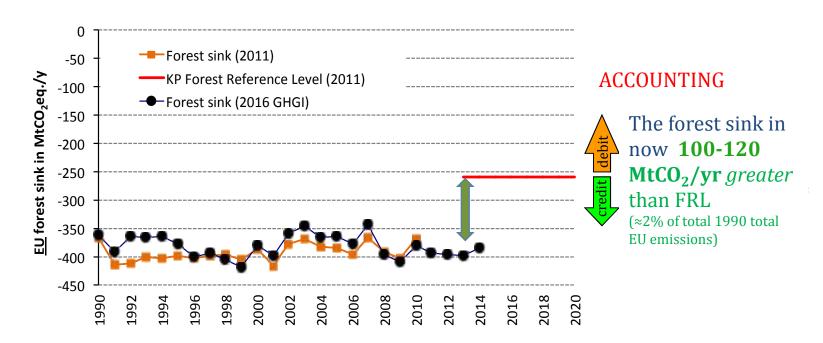




**Forest Reference Level (FRL):** country baseline for future forest emissions / removals, against which the actual emissions/removals will be compared for <u>accounting</u> purposes

Under Kyoto (2013-2020), the **EU MS' FRLs** were based on *projections*, including the <u>effect of forest aging</u> + <u>assumptions</u> on the <u>future impact</u> of existing policies + markets





Why is reality so different from projections? (*impact of policies? impact of economic crisis?* projections inflated with flawed assumptions on harvest?)

Does the inclusion of policy assumptions affect the **credibility** of future FRL setting?





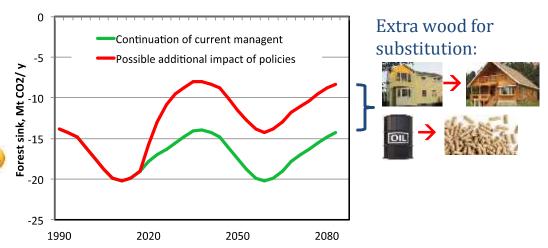
#### Impact of forest aging and policies on the forest sink

Forests getting older: need of extra harvest → temporary decline of the sink

#### **Extra** policies stimulating harvest:

- > decline of the sink → LULUCF 🤢
- > GHG substitution > other GHG sectors

"forest sector"
"forkst" mitigation



#### Why policy assumptions in FRLs hampers credibility of accounting?

Example on **bioenergy** [biomass burning emissions are not counted under energy: assumed to be counted in LULUCF]

An existing policy plans to build 8 new biomass power plants  $\rightarrow$  extra harvest in the FRL.

In reality, it may happen that:

- (a) 2 plants built → less harvest than expected: credits reflect a deviation from unreviewable assumptions;
- (b) 8 plants built → the policy-driven, real-world increase of emissions included in the FRL (i.e. *not* accounted *against* the FRL) disappears from EU accounts

#### **Lessons learnt from Kyoto:**

- → FRL may become a "baseline set so low that success is guaranteed"
- → Extra (relevant) emissions due to bioenergy NOT counted in LULUCF





#### **NEW forward-looking FRL:** <u>continuation of current forest management</u>

- **FRL entirely based on national circumstances**: current forest management, characteristics and the <u>age-class structure dynamics</u> are *factored in the projections*
- The FRL does not project *future* impact of policies/markets/owners' behavior, but will implicitly reflect the impact of past policies (<u>like the base year for the other sectors</u>)
- The accounting will reflect <u>only</u> changes in management practice and intensity relative to historical period (<u>like any other sector</u>)

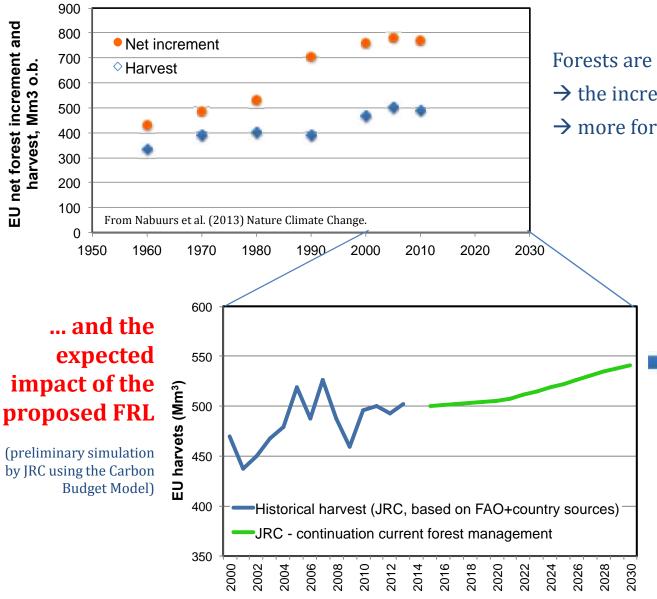
Does the factor below affect the accounting?	Other GHG sectors	LULUCF	
		FRL under KP	FRL in EU post-2020
Assumed future impact of policies/markets	NO	YES	NO
Change in management relative to historical period	YES	YES	YES

Which is the concrete expected impact of this FRL approach?





#### Long-term forest increment and harvest trends in the EU



Forests are getting older in most MS:

- → the increment is saturating
- → more forests reach maturity

Harvest in 2021-2030 projected to be 10% higher than in 2000-2009



Any age-related extra harvest needed to continue the current management will enter in the FRL → will not be accounted as a debit



#### **Conclusions**

The **proposed FRL** incorporates the forest-aging dynamics, ensuring transparency, reviewability, <u>credibility</u> (i.e. bioenergy) and <u>comparability</u> with other GHG sectors.

In contrast, including policy assumptions into the FRL would seriously undermine:

#### (1) the credibility of forest mitigation

- Forest credits may simply reflect flawed/unreviewable assumptions, *and/or*
- A policy-driven, real-world increase of emissions could disappear from EU accounts

up to 2% of total 1990 total EU emissions

#### (2) the EU long-term climate objectives

The EU objective of reducing GHG emissions of -40% by 2030 (80-95% by 2050) compared to 1990 (excl. LULUCF) is based on the <u>IPCC 2°C trajectory</u> for developed countries<sup>1</sup>, which in turn <u>assumes decreasing LULUCF net emissions</u><sup>2</sup>. *Increasing* LULUCF net emissions through policies should be correctly accounted, otherwise we lose consistency with IPCC. Hiding emissions due to policies in the accounts doesn't put us on track with IPCC. Instead, we should further reduce the emissions in other GHG sectors. Ready for that?

<sup>&</sup>lt;sup>2</sup> RCP database. http://tntcat.iiasa.ac.at/RcpDb/dsd?Action=htmlpage&page=welcome



<sup>&</sup>lt;sup>1</sup> 'A Roadmap for moving to a competitive low carbon economy in 2050', COM(2011) 112 final



Forests emerged as an <u>essential</u> element of the Paris Agreement, as long as the *credibility* of mitigation efforts is ensured. (credibility is not a easily renewable resource)

Don't miss the forest (EU climate objectives) for the trees

