

JRC WORKSHOP ON LULUCF REPORTING
UNDER THE KYOTO PROTOCOL

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KP-LULUCF REPORTING & REVIEW
BULGARIA

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KP-LULUCF reporting

- Bulgaria has chosen to account for all activities related to art.3.3
- Bulgaria uses the national boundary as a geographical boundary for reporting of activities under Article 3.3 of KP
- Coverage of the KP-LULUCF reporting in 2011

Activity		Change in carbon pool reported ⁽¹⁾					Greenhouse gas sources reported ⁽²⁾							
		Above-ground biomass	Below-ground biomass	Litter	Dead wood	Soil	Fertilization ⁽³⁾	Drainage of soils under forest management	Disturbance associated with land-use conversion to croplands	Liming	Biomass burning ⁽⁴⁾			
							N ₂ O	N ₂ O	N ₂ O	CO ₂	CO ₂	CH ₄	N ₂ O	
Article 3.3 activities	Afforestation and Reforestation	R	IE	R	NR	R	NO				NO	NO	NO	NO
	Deforestation	R	IE	R	R	R			NO	NO	NO	NO	NO	
Article 3.4 activities	Forest Management	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	
	Cropland Management	NA	NA	NA	NA	NA			NA	NA	NA	NA	NA	
	Grazing Land Management	NA	NA	NA	NA	NA				NA	NA	NA	NA	
	Revegetation	NA	NA	NA	NA	NA				NA	NA	NA	NA	

2011 Centralized review

Main findings

- Questions on LULUCF reporting under the Convention
 - ▣ Land use statistics and adjustments
 - ▣ Estimation of country-specific coefficient

- Questions on KP-LULUCF reporting
 - ▣ Reporting requirement under paragraph 8 (a) of the annex to decision 15/CMP.1
 - ▣ National Forest Inventory
 - ▣ Forest Act and its legal provisions

Potential problems and questions raised in Saturday Paper

- No inventory related potential problems concerning LULUCF reporting
- One question related to the National System and the activities under art.3.3 of the KP
 - ▣ *The ERT notes the reported AR area in the current version of annual submission 2011 includes the area afforested/reforested before 1 January 1990 and therefore finds that the provided information does not demonstrate that activities under Article 3, paragraph 3, began on or after 1 January 1990.*
 - ▣ *The ERT recommends that Bulgaria provide the figure of AR activities that it can confirm occurred on or after 1 January 1990 in order to fulfill the reporting requirement set out in paragraph 8 (a) of the annex to decision 15/CMP.1.*

Where the problem comes from?

Reporting of ARD units of land...

- There is a significant increase in forest area – 285 kha since 1990
- Forest area in Bulgaria is annually reported in Forestry fund reporting forms (1FF)
- Deforestation areas are registered since 2000
- These net changes in forest areas plus the annual deforestation areas must represent the annual AR areas to be consistent with the known annual increase in forest area

The problems is...

- The increase in forest area was also due to the inclusion of new areas in the forest total and in 1FF. The inclusion come as a result of forest inventories
- The new areas meet all requirements for forest definition but do not meet the requirement of not being forest before 1 January 1990
- The reported AR units should be considered as preliminary

Solution

Bulgaria will implement the following improvement steps:

1. Executive Forest Agency will examine the Forest Management Plans for all State Forest Enterprises (SFE), which were inventoried in the period 2001 - 2010. For those SFE, where there is an increase in the forest area since 1990, the increase will be derived into:
 - a) New forest areas which are included in the forest total, but which were forested before 1990, so new forests with stands of older age classes.
 - b) And the new forested areas with stands of the youngest age class, which are due to afforestation and reforestation activities on barren areas or re-growth on grassland or on croplands.

Solution

Bulgaria will implement the following improvement steps:

2. The amount of the “new” forest areas since 1.1.1990 which were forested before 1990 (point a) will be added to the total forest area in 1990 and the years after according to Forestry Fund Reporting Form 1FF. Like that the total forest area in 1990 and in the years after will be adjusted.
3. The new forest areas between 2010 and 1990 according to point b will represent the AR areas. Those new forest areas are included in the FMPs, which by itself is evidence that the AR areas are direct-human induced

Those steps will be performed by the experts from Executive Forest Agency. The first results of this process will be provided to the Executive Environment Agency until 31.01.2012. Consequently the AR units in Submission 2012 and information on the associated uncertainty will be provided as well.

Data

To perform these improvements, Bulgaria will use the following sources of information:

- ▣ Forest Inventory and FMPs
- ▣ Forestry Fund Reporting Form 1FF (forest area) for the 1990 and the years after
- ▣ Forest maps.

The country territory is divided into almost 180 State Forest Enterprises. Forest Inventory and FMPs are carried out for each State Forest Enterprise. The inventory aims measurement and processing of the following main data:

- ▣ Forest area and its changes;
- ▣ Tree composition, origin, age, management purpose;
- ▣ Tree height and diameter;
- ▣ Annual increment, bonitat, density of the stands;
- ▣ Tree growing stock;
- ▣ Data about main rock, soil type and soil bonitat and other important habitat characteristics.

The measurements of the Forest Inventory are carried out for each and every SFE once in every 10 years.

THANK YOU FOR YOUR ATTENTION
QUESTIONS?