Forest Management Accounting – Japan's perspective and info –



Presentation at the pre-sessional workshop on forest management accounting

Forestry Agency, Japan July 30, 2010

Data on forest management in Japan (submitted in December 2009)

(Mt CO_2/yr)

	Α	В	С	D	E	F	G	Н	
	1990	Proposed	Forecast	Forecast	Forecast	Forecast	Forecast	Forecast	
	emissions/	reference	for 1st CP	for 2013-	based on	based on	based on	under	
	removals	level		2020	1990	reference	1st CP	Option B	
					(E=D-A)	level	(G=D-C)		
						(F=D-B)			
	- 81 (- 6.4%)	0	- 47.67 (- 3.8%)	Year: 2015					
				~ −39	~ 14	~ −39	~ 9	~ 14	
				(∼ −3.1%)	(~ 1.1%)	(∼ −3.1%)	(~ 0.7%)	(~ 1.1%)	
				Year: 2020					
				~ −37	~ 19	~ −37	~ 15	~ 19	
				(∼ −2.9%)	(~ 1.5%)	(~ −2.9%)	(~ 1.2%)	(~ 1.5%)	
	0.76 (0.06%)	0	~ -0.36 (~ -0.03%)	Year: 2015					
				~ −0.54	~ −1.3	~ −0.54	~ −0.17	~ −1.3	
HWP only				(∼ −0.04%)	(∼ −0.10%)	(~ −0.04%)	(~ −0.01%)	(∼ −0.10%)	
(For reference)				Year: 2020					
				~ −0.72	~ −1.5	~ −0.72	~ −0.35	~ −1.5	
FO				(∼ −0.06%)	(∼ −0.12%)	(∼ −0.06%)	(∼ −0.03%)	(∼ −0.12%)	

Note: Positive numbers denote emissions; negative number denote removals () is the Percent of Base Year Total GHG emissions under Kyoto Protocol





- Japan's proposed reference level is zero (0)
 - > Japan considers that Gross-net with "narrow approach" is the best approach, thus, setting the reference level as zero. It is substantially equal to Gross-net.
- Reference Level for HWP is also zero (0)
 - > The same approach in setting the reference level for forest management should apply for HWP as far as HWP is sixth pool of forest in order to keep consistency.











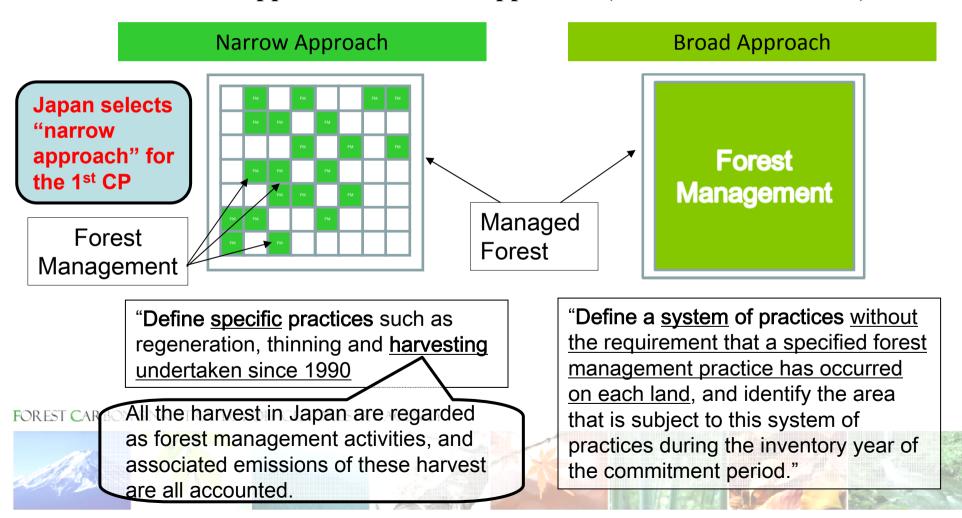






What is Narrow Approach?

- Narrow Approach and Broad Approach -
- GPG-LULUCF presents two different approaches on the identification of areas subject to forest management:
 - > Narrow Approach & Broad Approach (GPG-LULUCF 4.2.7.1)



- Relation with note 2 of para 11 Option 2 (reference levels)
- (a) Removals or emissions from forest management as shown in greenhouse gas inventories and relevant historical data
 - ➤ The difference of removals from forest under UNFCCC (80Mt-CO2eq.) and removals from forest management under Article 3.4 of Kyoto Protocol (45Mt-CO2eq.) in Japan
 - clearly explains that "narrow approach" takes into account the human-induced issue, and
 - justifies Japan's proposal of reference level = 0 on the condition that narrow approach is continued to be used.
- (b) Age-class structure
 - Age-class structure is important because the degree of forest maturity can be estimated.
- In Japan, net removals are expected to decline due to age-class structure even in the presence of extensive sustainable forest management activities. The forest management rule should not hinder efforts on future SFM activities in FOREST CARBON Stuch countries as Japan.
 - > Japan's proposal on reference level fully takes into account this issues.

- Relation with note 2 of para 11 Option 2 (reference levels)
- (c) Forest management activities already undertaken
 - ➤ Japan has maintained two-third of the total land area as forest and promoted SFM over a long period of time. In addition, Japan has promoted SFM activities, inter alia, thinning in the 1st CP.
 - Application of historical removal/emission or BAU projection as reference levels to countries like Japan downgrades their past efforts of forest management activities and hinders FM activities during the current CP.
 - ➤ Thus, countries like Japan should apply reference level = 0 with narrow approach so as to promote new and additional FM activities.
- (d) Projected forest management activities
 - > Reference level should be set to promote future SFM activities.
 - For the assurance of future sustainable activities, the rule of next CPs should give similar incentive to these activities to the current rule.
- Without incentives, proper level of FM activities might be decreased significantly. Reference level =0 with narrow approach will promote the continuation of current SFM activities in Japan.

Relation with note 2 of para 11 Option 2 (reference levels)

- (e) Continuity with the treatment of forest management in the first commitment period
 - > Forest management is elected in the first commitment period in Japan.
 - ➤ The continuity with treatment of FM is essential to maintain incentives for continued SFM created under the current rules in Japan.
 - ➤ The continuity and coherence of policy and SFM should not be hindered due to significant change of international rule in the short term.
 - > Thus, Japan's proposed rule is basically the same as the current rule
- (f) The need to exclude removals in accordance with decision 16/CMP.1, paragraph 1 (h).
 - > It is scientifically difficult to exclude removals in accordance with decision 16/CMP.1. paragraph 1(h)
 - > "Narrow approach" takes into account the direct human activities to be accounted as it excludes the accounting of removal of forests where there is no specific FM practices.

















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	removals	level		2020	1990 (E=D-A)	reference level (F=D-B)	1st CP (G=D-C)	Option B
	- 81 (- 6.4%)	0	- 47.67 (- 3.8%)	Year: 2015				
							~ 9 (~ 0.7%)	
				Year: 2020				
							~ 15 (~ 1.2%)	
		0		Year: 2015				
HWP only	0.76 (0.06%) N SINK STRATE		~ -0.36 (~ -0.03%)				~-0.17 (~-0.01%)	
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OREST CARBO							~ -0.35 (~ -0.03%)	

Note: Positive numbers denote emissions; negative number denote removals () is the Percent of Base Year Total GHG emissions under Kyoto Protocol



Forecast on emissions/removals on Article 3.4 Forest Management in 2020

- Forest management emissions/removals in 2020
 - > ~-37 Mt CO₂/yr (HWP as instantaneous oxidation)
 - > ~2.9 % of base year total GHG emissions
- HWP emissions/removals in 2020
 - ➤ ~-0.72 Mt CO₂/yr (credit; applying paragraph 21 Option 2 of Annex Option A with some assumptions)
 - > ~0.06 % of base year total GHG emissions

Note: Positive numbers denote emissions; negative number denote removals

















The Assumption of the forecast on emissions/removals - Forest Management -

- "Narrow approach" is continuously used in the same manner as in the first commitment period.
- The current level of forest management activities (thinning, etc.), which are promoted for achieving Kyoto Protocol's commitment of 6% emission cut (and 3.8% removal by Article 3.3 and 3.4 Forest Management), continues to be maintained
 - > Thinning: 550 thousand ha/year
 - > Protection and conservation measures of forests
- Thus, this forecast is different from the BAU projections

















The Assumption of the forecast on emissions/removals - Forest Management -

- The change of the level of harvesting /planting and subsequent change of forest area /age class structure are forecast in accordance with the current basic government plans of forest and forestry including the Nationwide Forest Plan (2008)
- Nationwide Forest Plan (2008)
 - > 15-years nationwide forest plan established under the Forest Law by Minister of Agriculture, Forestry and Fisheries and updated every 5 years
 - > Planned goal of forest management and forest conservation as well as harvest volume and area for planting to be achieved through the 15-year period

FORES

















The Assumption of the forecast on emissions/removals - HWP -

- Using the approach described in paragraph 21 Option 2 of Annex Option A contained in FCCC/KP/AWG/2010/6/Add.2/
- Only domestically produced and consumed HWP pool is accounted on the basis of estimates of when emissions occur.
 HWP is assumed as instantaneous oxidation when they are exported.
- 11 W1 13 assumed as instantaneous oxidation when they are exported.
- > Emissions from HWP pool arising from wood harvested prior to 2013 is included
- Domestic wood supply will remain almost stable in accordance with the current basic government plans
- > Demand for wood will gradually decrease as expected from past few years trend of each product category because of depopulation etc.
- Domestic wood supply will remain almost stable in accordance with the current basic government plans (Basic Plan for Forest and Forestry (2006)).

Basis of the assumptions -Nationwide Forest Plan (2008)-

- Target Period: FY2009 ~ FY2024
- Planning Unit :44 river basins

Based on the natural conditions and administrative boundaries,









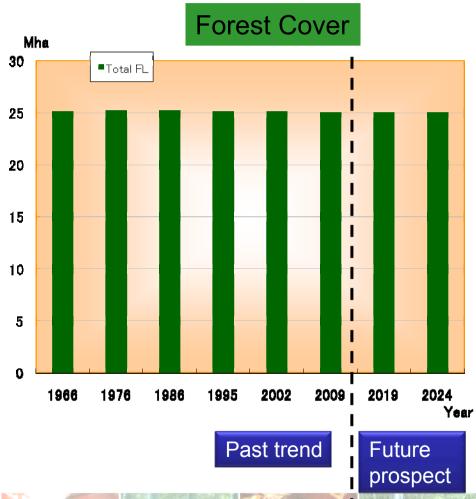
Basis of the assumptions -Nationwide Forest Plan (2008)-

■ Forest Cover

- Maintained virtually constant (around 25Mha)
- ◆ Conversion from semi-natural forests to intensively managed forests is very small

✓ Ikuseirin-Forest (Intensively Managed Forest) 11.27Mha→11.81Mha

✓Tennenseirin Forest
(Naturally regenerated forest)
13.83Mha→13.29Mha









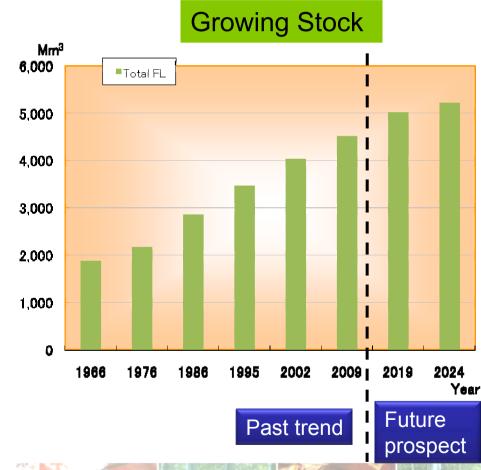






Basis of the assumptions -Nationwide Forest Plan (2008)-

- Growing Stock and Annual Net Increment
 - Growing Stock : Keep increasing for the planning period
 - Annual Net Increment:
 passed peak around 2005
 and is considered to
 decrease in the future
 69Mm3(2015)→58Mm3(2025)
 - Planned Harvest Volume (excluding thinning):15Mm3/yr









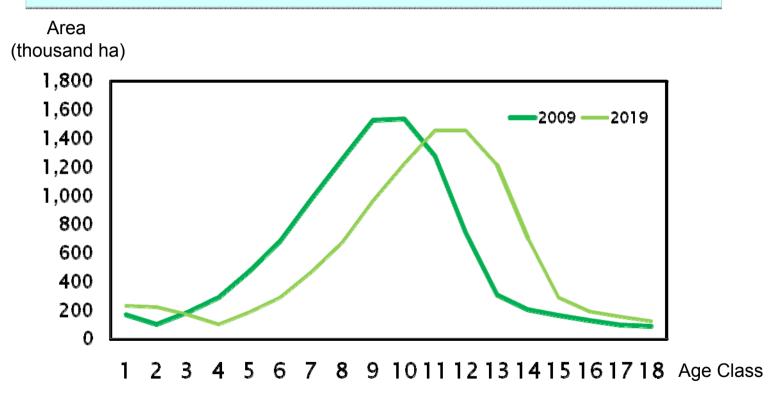






Transition of Age Class Structure in Intensively Managed Forest (2010-2020)

Planned harvest volume is less than one-third of annual increment of forest volume.



(Note: 1 Age class = 5 years)







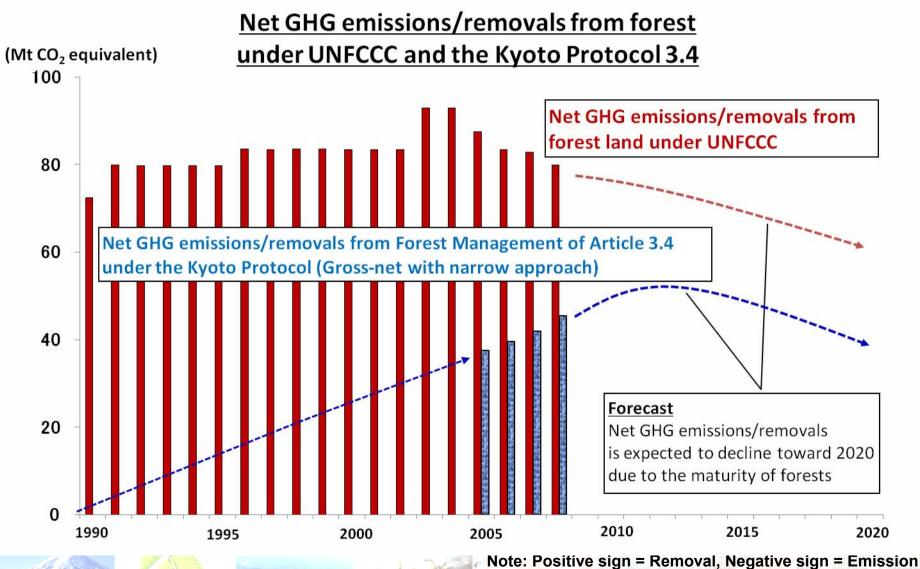








Historical Data and Preliminary Projections (Managed Forest/Forest Management)



Japan's future course of forest and forestry policy

- "The plan for revitalizing forest and forestry" (December 2009)
 - The guideline for swift revitalization of forest and forestry in Japan
 - promote collective forest management activities, infrastructure development for these activities, and human resource development
 - >establish framework for stable supply and increase the utilization of forest products
 - Under the plan, concrete policy measures and institutional framework (Forest and Forestry Basic Plan, etc) are currently being elaborated.

















For further information

- Please see the following submissions and presentation
 - December 2009 submission (http://unfccc.int/files/kyoto_protocol/application/pdf/awgkpluluc fjapan041209.pdf)
 - September 2009 submission (http://unfccc.int/files/kyoto_protocol/application/pdf/japanlulucf 290909.pdf)
 - November 2009 presentation (http://unfccc.int/files/kyoto_protocol/application/pdf/awgkpluluc fdatajapan051109.pdf)
 - October 2009 presentation (http://unfccc.int/files/kyoto_protocol/application/pdf/awgkpluluc fjapanpresentation.pdf)















