



Deforestation/Forest Degradation	
Period	Area
1982 - 1990	0.9 M ha/yr
1990 - 1997	1.8 M ha/yr
1997 - 2000	2.83 M ha/yr
2000 - 2006	1.08 M ha/yr
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Rehabilitation Program

- Forest and Land Rehabilitation is one of priority policies on forestry
- This policy is implemented through:
 - Regular Forest and Land Rehabilitation (RHL), regreenning, reforestation, soil conservation practices, etc.
 - National Movement on Forest and Land Rehabilitation (GERHAN), where government provide seedling and planting cost



The target and the realization is lower than the degraded land

As a result:

The rate of rehabilitation will not possible to take-offer the rate of degradation

Therefore:

Need a mechanism to speed-up the rate of rehabilitation.

AR CDM

is believed as one of the solution

AR CDM in INDONESIA

- AR CDM is expected as one of potential mechanism to solve forestry problems in Indonesia, such as:
 - Speed up rehabilitation of degraded forest and land
 - Generate local income
 - Create employment opportunity
 - Supporting sustainable development

Up to now there is no AR CDM implementation and registered at EB

PROBLEMS

- Eligibility of land is difficult to be define
- Complicated Procedure
- Lack of investor who are willing to provide up-front finance
- High transaction cost
- Discouraging carbon price



- The definition of forest has been decided by COP9 in a range of crown cover, tree high, and land area.
 - Minimum of tree crown cover is 30%
 - Minimum height at maturity is 5 meters
 - Minimum area of land is 0.25 hectares
- Tree grows all day long in the year, there is no dormant period.
- Deforested/degraded forest area will recover into 'forest' within 2 years if there is no disturbance.

Eligibility of Land

- Therefore, areas that will be eligible for AR CDM in Indonesia are:
 - Land that have been cultivated by community since 1990 for agricultural practices which will not allow the land to regenerate into forest, such as tillage and no tillage farming
 - Area in which the stand is vulnerable to fire (burned almost regularly).
 - Heavily degraded land
 - Settlement establish before 1990
 - New land for mangrove

Eligibility of Land

- NSS study identified that 32.5 million ha of land is potentially included in the forest carbon projects,
- However only about half of it was eligible for CDM projects.
- The allocation of the area for the forest carbon projects were:
 - Reforestation: 3.2 million ha
 - Agroforestry: 12.7 million ha
 - Community forestry: 9.8 million ha
 - Forest plantation under Concessionaire (HTI): 1.9 million ha
 - Forest plantation non Concessionaire (Reboisasi): 4.9 million ha





Transaction Cost Without CDM 1 ha plantation cost US\$ 650 With CDM, transaction cost will be added to the plantation cost. The cost is more or less as follow: Feasibility & Due Diligence \$5,000 - \$10,000 PDD formulation US\$ 20,000 - \$100,000 (new method) Public consultation US\$2,000 - US\$10,000 Validation US\$8,000 - US\$15,000 Registration to EB US\$0.10/ CER - US\$0.20/ CER Underlying investment Depend on the project Project implementation Depend on the project Monitoring Depend on the project Verifikasi US\$5,000 - US\$10,000



Important point in CDM Implementation

Points should be taken care in implementing AR CDM in Indonesia are:

- Land ownership/right
- Concession rights
- Stakeholder participation
- Level of risk



- AR CDM implementation in Indonesia require good understanding of local, national, and international institutions.
- AR CDM process is clearly guided by Ministry of Environment Decree No. 206/2005, and Ministry of Forestry Decree No. 14/2004.
- Several aspects and problems need to be addressed specifically to ensure benefits of AR CDM implementation, such as: land ownership, participation, incentive distribution, socio-economic and biophysical impacts, and costs.

