

Emission From Meru Betiri National Park

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International scheme is being developed to cover REDD (Reducing Emission from Deforestation and Degradation) as carbon related mechanism to deal with global warming from forestry sector. REDD+ is then proposed to include conservation, sustainable forest management and enhancement of carbon stock.

Meru Betiri National Park (MBNP) located in southern part of East Java is one the National Parks which has been selected as the project site for ITTO activities. The total area of the Park is ± 58,000 ha consisting of various vegetation types from mountainous to coastal areas. MBNP is rich of biological diversity and community living surrounding the forest which give both positive and negative effects to the sustainability of the forest.

MBNP is eligible for REDD project because the area has been experiencing unplanned deforestation and degradation. MBNP has been selected as the site for demonstration activities (DA) of REDD through ITTO project. Development objective of this project is to contribute to reducing emissions from deforestation and forest degradation, and enhancing forest carbon stocks through enhanced community participation in conservation and management of the MBNP.

One of the project objective is to develop a credible, measurable, reportable and verifiable system for monitoring emission reductions from deforestation and forest degradation and enhancement of forest carbon stocks in the Meru Betiri National Park (MBNP).

Some activities have been carried out to estimate emission from MBNP.

According to IPCC GL 2006, emission is estimated through activity data gained from land cover change (remote sensing data) and ground measurement

Results of this analysis showed that emission from MBNP has been relatively small. This is due to small deforestation rate during the period of observation. Even during the period of year 2001-2005 the MBNP became net sinker from forest growth. This result has shown that REDD mechanism from historical deforestation emission cannot be applied in national park as conservation area. REDD+ mechanism that include conservation should be an option for mitigation option and eligible for carbon credit trading. Other mechanism could be voluntary mechanism or carbon offset mechanism between two or more parties.