

VCS Module

VMD0043

Estimation of emissions from displacement of pre-project agricultural activities (LK-ARR)

Version 1.0

9 March 2015

Sectoral Scope 14

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1 SOURCES

This module is one of numerous modules that constitute VCS methodology *VM0007 REDD Methodology Framework (REDD-MF)*.

This module uses the latest versions of following CDM methodology and tool:

- *AR-ACM0003 Afforestation and reforestation of lands except wetlands*
- *Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity*

2 SUMMARY DESCRIPTION OF THE MODULE

This module provides procedures for estimating GHG emissions caused by activity shifting leakage of ARR project activities.

3 DEFINITIONS

Definitions are set out in in VCS document *Program Definitions*, and methodology *REDD-MF*. This module does not set out any further definitions.

4 APPLICABILITY CONDITIONS

This module is applicable under the following conditions:

- Applicability conditions set out in *AR-ACM0003* must be met.
- Applicability conditions in *AR-ACM003* that exclude project activities on wetlands can be disregarded in the context of this module.

5 PROCEDURES

Emissions due to the displacement of pre-project agricultural activities in ARR project activities are estimated using CDM tool *Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity*.

Net GHG removals under the ARR project scenario (ΔC_{LK-ARR}) is equal to the summation from GHG emissions due to leakage (LK_t) as follows:

$$\Delta C_{LK-ARR} = \sum_{t=1}^{t^*} LK_t \quad (1)$$

Where:

ΔC_{LK-ARR}	Net GHG removals under the ARR project scenario up to time t^* (t CO ₂ e)
LK_t	GHG emissions due to leakage, in year t (t CO ₂ e)
t	1,2,3..... t^* time since project start (years)

6 PARAMETERS

6.1 Data and Parameters Available at Validation

Data / Parameter	LK_t
Data unit	t CO ₂ e
Description	GHG emissions due to leakage, in year t
Equations	1
Source of data	<i>AR-ACM0003 and Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity</i>
Value applied	N/A
Justification of choice of data or description of measurement methods and procedures applied	<i>AR-ACM0003 is approved by the UNFCCC</i>
Purpose of Data	Calculation of project emissions
Comments	N/A

6.2 Data and Parameters Monitored

Data / Parameter:	LK_t
Data unit:	t CO ₂ e
Description:	GHG emissions due to leakage, in year t
Equations	1
Source of data:	<i>AR-ACM0003 and Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity</i>
Description of measurement methods and procedures to be applied:	<i>See Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity"</i>
Frequency of monitoring/recording:	<i>See Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity</i>
QA/QC procedures to be applied:	<i>See Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity</i>

Purpose of data:	Calculation of project emissions
Calculation method:	See <i>Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity</i>
Comments:	N/A

7 REFERENCES

None.

DOCUMENT HISTORY

Version	Date	Comment
v1.0	9 March 2015	Initial version