



T-VER-P-METH-13-01

Afforestation/Reforestation of Lands Except wetlands

Version 01

Sectoral Scope: 14 –Afforestation and Reforestation

Entry into force on 1 March 2023

องค์การบริหารจัดการก๊าซเรือนกระจก (องค์การมหาชน) (อบก.)

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1. Methodology Title	Afforestation/Reforestation of lands except wetlands
2. Project Type	Reduction, absorption and removal of greenhouse gases from the forestry and agriculture sectors
3. Sector	Afforestation and reforestation
4. Project Outline	Greenhouse gas reduction activity incurred from carbon sink increase of above-ground and below-ground biomass including dead woods, plants, and soil (alternative) in afforestation and reforestation area (except wetland)
5. Applicability	<ol style="list-style-type: none"> 1. Correct afforestation, forest conservation and management methodology 2. Perennial planting (trees) 3. Project area has land-use rights certificate as specified by law 4. Baseline area before project initiation must not be a forest (crown covering of a fully grown tree must not less than 3 meters or less than 30% of the total area in average) 5. Baseline area prior to project initiation must not be a wetland
6. Project Conditions	<ol style="list-style-type: none"> 1. Project area may compose of many areas together 2. Refrain from clear-cutting or total timber harvesting within the project area for 10 years after project initiation. 3. The project must operate its additionality activities as an increment to legal requirement, but not be against the laws relevant to its operations, except activities of government agencies, state enterprises, and agencies under the government's administration 4. The project must not create more than 10% of soil disturbance such as digging a plant hole, and making a trench in the following areas: <ol style="list-style-type: none"> 4.1 Land containing organic soils or 4.2 Land prior to project operations must be managed and treated in a way to increase soil organic carbon such as use minimum tillage and organic fertilizer (Details appear in Annex)
7. Project starting date	Planting or sowing seeding in the project area. This does not include site preparation such as weeding digging planting holes, etc.
8. Remark	-

Definitions

Baseline	In business-as-usual greenhouse gas emission event
Afforestation	Planting trees on unforested land over a period of 50 years by planting from saplings or seeds and/or by arrangements that promote natural renewal (natural regeneration) <i>In the case of T-VER project development, evidence can be presented such as satellite images aerial photograph not later than 20 years to confirm the wilderness of the project area</i>
Reforestation	Planting trees on areas that used to be forests but were destroyed by planting from seedlings or seeds and/or arrangements that promote natural renewable growth.
Soil disturbance	Human activities that result in the release of carbon accumulated in organic form in the soil into the atmosphere, such as tilling, digging, cultivating, trenching, draining, etc.
Small scale project	Greenhouse gas reduction projects that can reduce or store greenhouse gases up to 16,000 tCO ₂ eq/year.
Large scale project	Greenhouse gas reduction projects that can reduce or store more than 16,000 tCO ₂ eq/year.
Organic soil	Organic soil is soil with various characteristics as specified by FAO, which must have the characteristics in Clauses 1 and 2 or Clauses 1 and 3 as follows: (1) having a thickness of 10 cm or more The soil layer is <20 cm thick and must contain at least 12% organic carbon in the soil when the soil is mixed to a depth of 20 cm. (2) In case the soil has not been saturated with water for more than 2-3 days and has soil organic carbon >20% by weight (approximately 35% soil organic matter). (3) In case the soil is saturated with water and (i) at least 12% by weight of soil organic carbon (containing organic matter in soil approximately 20%), if there is no clay mineral or (ii) at least 18% by weight of soil organic carbon (containing organic matter in the soil of about 30%), if it contains 60% or more of clay minerals, or

	<p>(iii) There is moderate soil organic carbon for moderately clay minerals.</p> <p>Area data should be classified by climatic zone, namely temperate and tropical. and classified according to soil fertility for temperate forest areas. Organic land area data may be compiled from official country statistics. or the organic land area of each country as reported by the FAO. (http://faostat.fao.org/)</p> <p>Data Source: 2006 IPCC Guidelines (Vol. 4 Chapter 3)</p>
Wetlands	<p>According to the Ramsar Convention or the Convention on Wetlands (in Articles 1.1 and Article 2.1 of the Convention, wetlands are defined as "Wetlands" means lowlands, lowlands, wet areas, peatlands, bodies of water, both naturally occurring and man-made. Either with waterlogging or Floods are permanent and temporary. both as a source of still and running water Both freshwater, brackish and saltwater, including the coast and inland areas where when the tide is the lowest with a depth of not more than 6 m.</p>
Document or certificate of land use rights	<p>Documents showing rights to use the land according to the law, such as a land title deed (Nor. Sor 4), a certificate of utilization (Nor Sor 3) or a land use authorization letter from the relevant government agency, etc.</p>

In addition to the definitions contained in this document, Use definitions consistent with definitions in the T-VER, CDM and IPCC Guidelines.

T-VER Methodology for Afforestation/Reforestation of lands except wetlands

1. Scope of project

1.1 Operation Characteristics

Afforestation and reforestation of land except wetland is a large-scale project that can perform greenhouse gas reduction and removal of more than 16,000 tons of carbon dioxide equivalent per year, or a small-scale project that can perform greenhouse gas reduction and removal of not more than 16,000 tons of carbon dioxide equivalent per year. Activities relevant to this activity that are important to the project's carbon sink capacity include correct tree planting, forest conservation and management listed below.

- Tree planting means planting new trees in the area
 - Site preparation
 - Seedling preparation
 - Planting methods
- Conservation means care and maintenance provision to new plants and those existing in the area to increase carbon sink capacity
 - Weeding
 - Watering
- Technical afforestation and other significant factors affecting carbon sink in wood
 - Pruning
 - Thinning
 - Fire prevention barrier
 - Surveillance monitoring

1.2 Project boundary

Project participant must identify project location including geographic coordinate, location, and other details of such location as well as a legal land use certificate.

2. Selection of carbon pools and greenhouse gases for calculation

2.1 Source of carbon pools and greenhouse gases for calculation

Carbon pools	Selected	Explanation
Aboveground Biomass: ABG	Yes	This is the major carbon pool subjected to project activity that calculated from wood biomass (tree) and sapling collected aboveground such as stem, branches, and leaves
Belowground Biomass: BLG	Yes	This is the major carbon pool subjected to project activity, A carbon stock calculated from wood biomass (tree) and sapling collected belowground such as root
Dead Wood: DW	Optional	A carbon source may increase from project activities, calculated from dead woods in the project area
Litter: LI	Optional	A carbon source may increase occurred from project activities calculated from litters in the project area
Soil organic carbon	Optional	A carbon source may increase occurred from project activities calculated from soil organic carbon in the project area

2.2 Emission source and GHG type selected for calculation

Sources	Greenhouse Gas	Selected	Explanation
Burning of woody biomass	CO ₂	No	CO ₂ emissions due to burning of biomass are accounted as a change in carbon stock
	CH ₄	Yes	Burning from site preparation and other activities happened as part of forest management and forest fire must be used for GHG emission calculation
	N ₂ O	Yes	Burning from site preparation and other activities happened as part of forest management

Sources	Greenhouse Gas	Selected	Explanation
			and forest fire must be used for GHG emission calculation
Use of fossil fuel	CO ₂	Yes	Use of fossil fuel in machines used for as part of forest management and reforestation such as site preparation must be used for GHG emission calculation of a large-scale project

3. Identification of baseline scenario and demonstration of additionality

Project participant must prepare land use pattern data before project initiation for a proper baseline scenario determination and a demonstration of additionality from business as usual by using *T-VER-P-TOOL-01-01 Combined tool to identify the baseline scenario and demonstrate additionality in forest project activities*

4. Stratification

If biomass distribution over the project land is heterogeneous, stratification should be carried out to improve the precision of carbon stock estimation especially in the following scenarios.

- For baseline net GHG removals by sinks, it is usually sufficient to stratify the area according to major vegetation types and their crown cover and/or land use types
- For net GHG removal forecast, it is sufficient to stratify the area according to major vegetation and forest management
- For net GHG removal (post implementation), the stratification depends on major vegetation and actual forest management. In the case of project impacts from natural or human disasters, such as storms or other factors such as sediment loads, which cause the trend of the project's biomass carbon sequestration to change. It is necessary to re-stratification accordingly.

5. Baseline net GHG removals by sinks

The baseline net GHG removals by sinks shall be calculated as follows:

$$\Delta C_{BSL,t} = \Delta C_{TREE_BSL,t} + \Delta C_{SAP_BSL,t} + \Delta C_{DW_BSL,t} + \Delta C_{LI_BSL,t}$$

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Where

- $\Delta C_{BSL,t}$ = Baseline net GHG removals by sinks in year t; tCO₂eq
- $\Delta C_{TREE_BSL,t}$ = Change in carbon stock in baseline tree biomass within the project boundary in year t, tCO₂eq, as estimated according to *T-VER-P-TOOL-01-02 Calculation for carbon stocks and change in carbon stocks of trees in forest project activities*
- $\Delta C_{SAP_BSL,t}$ = Change in carbon sink in baseline sapling within the project boundary in year t (alternative), tCO₂eq, as estimated according to *T-VER-P-TOOL-01-02 Calculation for carbon stocks and change in carbon stocks of trees in forest project activities*
- $\Delta C_{DW_BSL,t}$ = Change in carbon stock in baseline dead wood biomass within the project boundary, in year t (alternative), tCO₂eq, as estimated according to *T-VER-P-TOOL-01-03 Calculation for carbon stocks and change in carbon stocks of dead wood and litter in forest project activities*
- $\Delta C_{LI_BSL,t}$ = Change in carbon stock in baseline litter biomass within the project boundary, in year t (alternative), tCO₂eq, as estimated according to *T-VER-P-TOOL-01-03 Calculation for carbon stocks and change in carbon stocks of dead wood and litter in forest project activities*

However, change in net carbon stock in baseline, in year t, may be equivalent to zero, if the calculation appears according to the related calculation tool.

6. Actual net GHG removals by sinks

The actual net GHG removals by sinks shall be calculated as follows

$$\Delta C_{ACTUAL,t} = \Delta C_{P,t} - GHG_{E,t}$$

Where

- $\Delta C_{ACTUAL,t}$ = Actual net GHG removals by sinks, in year t; tCO₂eq
- $\Delta C_{P,t}$ = Change in the carbon stocks in project, occurring in the selected carbon pools, in year t; tCO₂eq
- $GHG_{E,t}$ = Increase in GHG emissions within the project boundary in year t; tCO₂eq

6.1 Change in the carbon stocks in project

Change in the carbon stocks in project, occurring in the selected carbon pools in year t shall be calculated as follows

$$\Delta C_{P,t} = \Delta C_{TREE_P,t} + \Delta C_{SAP_P,t} + \Delta C_{DW_P,t} + \Delta C_{LI_P,t} + \Delta SOC_{P,t}$$

Where

- $\Delta C_{P,t}$ = Change in the carbon stocks in project, occurring in the selected carbon pools, in year t; tCO₂eq
- $\Delta C_{TREE_P,t}$ = Change in the carbon stocks in tree biomass in project in year t, tCO₂eq, as estimated according to *T-VER-P-TOOL-01-0 2 Calculation for carbon stocks and change in carbon stocks of trees in forest project activities*
- $\Delta C_{SAP_P,t}$ = Change in the carbon stocks in sapling in project in year t (alternative), tCO₂eq, as estimated according to *T-VER-P-TOOL-01-02 Calculation for carbon stocks and change in carbon stocks of trees in forest project activities*
- $\Delta C_{DW_P,t}$ = Change in the carbon stocks in dead wood in project in year t (alternative), tCO₂eq, as estimated according to *T-VER-P-TOOL-01-03 Calculation for carbon stocks and change in carbon stocks of dead wood and litter in forest project activities*
- $\Delta C_{LI_P,t}$ = Change in carbon stock in litter in project in year t (alternative) in year t, tCO₂eq, as estimated according to *T-VER-P-TOOL-01-03 Calculation for carbon stocks and change in carbon stocks of dead wood and litter in forest project activities*
- $\Delta SOC_{P,t}$ = Change in carbon stock in SOC in project, in year t (alternative), tCO₂eq, as estimated according to *T-VER-P-TOOL-01- 0 4 Calculation for change in soil organic carbon stocks in forest project activities*

6.2 Calculation of GHG emission from project activities

The calculation of project emissions encompasses non-CO₂ emissions from biomass burning, such as site preparation, land management, or wildfires. Additionally, it includes emissions from fossil fuel combustion by machinery used in plantation and forest management activities (e.g., mechanized site preparation). However, small-scale projects are exempt from calculating project emissions derived from fossil fuel consumption.

The project is not required to assess additional GHG emission activities listed below.

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- 1) cuttings of herbaceous plants and shrubs
- 2) fertilizing
- 3) decomposition of plant residues and roots
- 4) Road construction in the project area and transportation from project activities

GHG emission from these activities does not significantly affect carbon sink quantity of the project and its value is equivalent to zero.

Additional GHG emission calculation shall be calculated as follow:

$$GHG_{E,t} = GHG_{Burning,t} + GHG_{Fuel,t}$$

Where

- $GHG_{E,t}$ = Additional GHG emission from project activities in year t; tCO₂eq
- $GHG_{Burning,t}$ = GHG emission from project activities' biomass burning in year t; tCO₂eq, as estimated according to *T-VER-P-TOOL-01-05 Calculation for non-CO₂ greenhouse gas emissions from burning of biomass in forest project activities*
- $GHG_{Fuel,t}$ = GHG emission from project activities' fossil fuel use in year t; tCO₂eq; for large-scale project can calculated as follow

$$GHG_{Fuel,t} = \sum (FC_i \times (NCV_i \times 10^{-6}) \times EF_{CO_2,i}) \times 10^{-3}$$

Where

- $GHG_{Fuel,t}$ = GHG emission from project activities' fossil fuel use in year t; tCO₂eq
- FC_i = Quantity of fossil fuel use type *i* for the operating project (unit)
- NCV_i = Net Calorific Value of fossil fuel use type *i* (MJ/unit)
- $EF_{CO_2,i}$ = GHG emission from fossil fuel burning type *i* (kg CO₂/TJ)

7. Leakage emission

Leakage emission happens from project activities in new boundary such as agricultural activities and displacement. Its GHG emission must be calculated as follow:

$$LK_t = LK_{AGR,t}$$

- LK_t = GHG emissions due to leakage, in year t; tCO₂eq
- $LK_{AGR,t}$ = Leakage due to the displacement of agriculture activities in year t, tCO₂eq, as estimated according to *T-VER-P-TOOL-01-06 Estimation*

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of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in forest project activities

8. Net anthropogenic GHG removals by sinks

Net anthropogenic GHG removals by sinks can be calculated as follow

$$\Delta C_{AR} = \sum_{t=1}^{t=n} \Delta C_{AR,t}$$

$$\Delta C_{AR,t} = \Delta C_{ACTUAL,t} - \Delta C_{BSL,t} - LK_t$$

Where

ΔC_{AR} = Net anthropogenic GHG removals by sinks, from the operating year t_1 to year t_n ; tCO₂eq

$\Delta C_{AR,t}$ = Net anthropogenic GHG removals in year t ; tCO₂eq

$\Delta C_{ACTUAL,t}$ = Actual net GHG removals by sinks, in year t ; tCO₂eq

$\Delta C_{BSL,t}$ = Baseline net GHG removals by sinks, in year t , tCO₂eq

LK_t = GHG emissions due to leakage, in year t , tCO₂eq

t = 1,2,3 ... n year from the project initiation

9. Monitoring Procedure

9.1 Monitoring Plan

Monitoring plan shall provide for collection of all relevant data necessary for verification of changes in carbon stocks in the pools selected, project emissions and leakage emission.

9.2 Monitoring of project implementation

Information for project implementation monitoring is provided in the project design document (PDD) that includes monitoring parameters, QA/QC methodology, frequency of QA/QC as per TGO requirements.

9.3 Data and parameters not monitored

Parameter	NCV _i
Unit	MJ/Unit
Definition	Net Calorific Value of fossil fuel type i

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Data Source	Option 1 Net Calorific Value of fossil fuel specified in invoice from fuel supplier Option 2 from monitoring Option 3 Thailand energy statistics report, Department of Alternative Energy Development and Efficiency, Ministry of Energy
Remarks	

Parameter	$EF_{CO_2,i}$
Unit	kg CO ₂ /TJ
Definition	GHG emission value from fossil fuel type i
Data Source	Table 1.4 2006 IPCC Guidelines for National GHG Inventories
Remarks	-

Other parameters that do not require monitoring appear in related calculation tools.

9.4 Data and parameters monitored

Parameter	Project location
Unit	UTM or Latitude, Longitude
Definition	Location coordinate of project boundary
Data Source	Monitoring report
Monitoring Methodology	Geographic coordinate from geolocation measuring tool or A value from a government map of at least four points indicating the location of the different directions: north-most, southern-most, eastern-most, and westernmost
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	-

Parameter	Project boundary
Unit	Rai
Definition	Total project area
Data Source	Monitoring report
Monitoring Methodology	- Exploration in the boundary - Use Satellite Imagery or Aerial Photography
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.

Remarks	-
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Parameter	$\Delta C_{TREE_BSL,t}$
Unit	tCO ₂ eq
Definition	Change in carbon sink in tree in baseline year t
Data Source	Monitoring report
Monitoring Methodology	<i>T-VER-P-TOOL-01-02 Calculation for carbon stocks and change in carbon stocks of trees in forest project activities</i>
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	-

Parameter	$\Delta C_{SAP_BSL,t}$
Unit	tCO ₂ eq
Definition	Change in carbon sink in sapling in baseline year t
Data Source	Monitoring report
Monitoring Methodology	<i>T-VER-P-TOOL-01-02 Calculation for carbon stocks and change in carbon stocks of trees in forest project activities</i>
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	optional

Parameter	$\Delta C_{DW_BSL,t}$
Unit	tCO ₂ eq
Definition	Change in carbon sink in dead wood in baseline year t
Data Source	Monitoring report
Monitoring Methodology	<i>T-VER-P-TOOL-01-03 Calculation of carbon stocks and change in carbon stocks in dead wood and litter in forest project activities</i>
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	optional

Parameter	$\Delta C_{LI_BSL,t}$
Unit	tCO ₂ eq
Definition	Change in carbon sink in plant decomposition in baseline year t
Data Source	Monitoring report

Monitoring Methodology	<i>T-VER-P-TOOL-01-03 Calculation of carbon stocks and change in carbon stocks in dead wood and litter in forest project activities</i>
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	optional

Parameter	$\Delta C_{TREE_P,t}$
Unit	tCO ₂ eq
Definition	Change in carbon sink in tree in project year t
Data Source	Monitoring report
Monitoring Methodology	<i>T-VER-P-TOOL-01-02 Calculation for carbon stocks and change in carbon stocks of trees in forest project activities</i>
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	-

Parameter	$\Delta C_{SAP_P,t}$
Unit	tCO ₂ eq
Definition	Change in carbon sink of sapling under the project activities year t
Data Source	Monitoring report
Monitoring Methodology	<i>T-VER-P-TOOL-01-02 Calculation for carbon stocks and change in carbon stocks of trees in forest project activities</i>
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	optional

Parameter	$\Delta C_{DW_P,t}$
Unit	tCO ₂ eq
Definition	Change in carbon sink of dead wood under the project activities year t
Data Source	Monitoring report
Monitoring Methodology	<i>T-VER-P-TOOL-01-03 Calculation of carbon stocks and change in carbon stocks in dead wood and litter in forest project activities</i>
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	optional

Parameter	$\Delta C_{LI_P,t}$
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Unit	tCO ₂ eq
Definition	Change in carbon sink of plant decomposition under the project activities year t
Data Source	Monitoring report
Monitoring Methodology	<i>T-VER-P-TOOL-01-03 Calculation of carbon stocks and change in carbon stocks in dead wood and litter in forest project activities</i>
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	optional

Parameter	$\Delta SOC_{p,t}$
Unit	tCO ₂ eq
Definition	Change in carbon sink in soil under the project activities year t
Data Source	Monitoring report
Monitoring Methodology	<i>T-VER-P-TOOL-01-04 Calculation for change in soil organic carbon stocks in forest project activities</i>
Monitoring Frequency	In accordance with the monitoring and verification cycles for credit issuance.
Remarks	optional

Parameter	FC_i
Unit	Fuel unit
Definition	Consumption of fossil fuel type <i>i</i> in case of project implementation in year t
Data Source	measurement report
Monitoring method	Option 1: In case of purchasing or disbursing fuel by using all the fuel at once no spare. Follow up on invoices or disbursement records showing fuel consumption. Option 2: In case of having a fuel storage container and disbursing from the storage container. To measure the mass or volume of fuel used and continuously record fuel consumption.
Monitoring Frequency	continuous monitoring by recording at least monthly
Remarks	-

Other parameters that require monitoring appear in related calculation tools.

10. References

- 1) AR-ACM0003 A/R Large-scale Consolidated Methodology: Afforestation and reforestation of lands except wetlands Version 02.0
- 2) AR-AMS0007 Afforestation and reforestation project activities implemented on lands other than wetlands Version 03.1
- 3) T-VER-METH-FOR-01 Sustainable Forestation Version 06
- 4) Combined tool to identify the baseline scenario and demonstrate additionality in A/R CDM project activities
- 5) Demonstration of additionality of small-scale project activities
- 6) Estimation of carbon stocks and change in carbon stocks of trees and shrubs in A/R CDM project activities
- 7) Estimation of carbon stocks and change in carbon stocks in dead wood and litter in A/R CDM project activities
- 8) Tool for estimation of change in soil organic carbon stocks due to the implementation of A/R CDM project activities
- 9) Estimation of non-CO₂ greenhouse gas (GHG) emissions resulting from burning of biomass attributable to an A/R CDM project activity
- 10) Estimation of the increase in GHG emissions attributable to displacement of pre-project agricultural activities in A/R CDM project activity
- 11) 2006 IPCC Guidelines

Appendix

Appendix 1 Soil Disturbance in Agricultural Land

In case the land use pattern of project boundary in baseline falls under a land use condition that has land management and intake factor (such as organic fertilizer) as shown in the table below, the project must limit soil disturbance not more than 10% of the project boundary (for example, digging pit at the size of 0.50 m x 0.50 m (width x length) at the distance of 3 m x 3 m is equivalent to 2.78 percent of total area)

Region	Land use	Management	Inputs
Tropical, dry	Short-term or set aside cropland	Full tillage	High with manure
		Reduced tillage	Medium
			High without manure
No-till	All		
Tropical, moist	Short-term or set aside cropland	Full tillage	High with manure
		Reduced tillage	High without manure
			High with manure
No-till	High without manure		
Tropical, montane	Long-term cultivated cropland	No-till	High with manure
	Short-term or set aside cropland	Full tillage	High with manure
		Reduced tillage	High without manure
			High with manure
	No-till	Medium	
		High without manure	
Tropical, wet	Short-term or set aside cropland	Full tillage	High with manure
			High without manure
		Reduced tillage	High with manure
			High without manure
No-till	High without manure		
	High with manure		

Modified from “Table 5.5 2006 IPCC Guidelines for National Greenhouse Gas Inventories”



Document information

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01	--	1 March 2023	-