



# Approved VCS Module VMD0006 Version 1.0 REDD Methodological Module: Estimation of baseline carbon stock changes and greenhouse gas emissions from planned deforestation (BL-PL) Sectoral Scope 14

# I. SCOPE, APPLICABILITY AND PARAMETERS

#### Scope

This module allows for estimating GHG emissions related to planned deforestation<sup>1</sup> in the baseline case. The module assesses GHG emissions within the project area for the baseline period.

## Applicability

The module is applicable for estimating the baseline emissions on forest lands (usually privately or government owned) that are legally authorized and documented to be converted to non-forest land.

Where post-deforestation land use constitutes reforestation this module shall not be used.

Where, pre-project, unsustainable fuelwood collection is occurring within the project boundaries modules **BL-DFW** and **LK-DFW** shall be used to determine potential leakage<sup>2</sup>.

c. Any national or regional forestry and nature conservation regulations are complied with.











Avoiding planned deforestation (APD): reduces GHG emissions by stopping deforestation on forest lands that are legally authorized and documented to be converted to non-forest land, and enhances carbon stock of degraded and secondary forests (if present in the project area) that would be deforested in the absence of the REDD project activity. This REDD practice can occur in degraded to mature forests at the forest frontier or in the forest mosaic configuration. (from the applicable VCS AFOLU requirements).

<sup>&</sup>lt;sup>2</sup> Where a project claims no fuelwood collection was occurring this shall be evidenced through a PRA process. Where fuelwood collection is claimed to be sustainable, the following criteria must in the absence of the project be met:

a. The land area remains a forest; and

b. Sustainable management practices are undertaken on these land areas to ensure, in particular, that the level of carbon stocks on these land areas does not systematically decrease over time (carbon stocks may temporarily decrease due to harvest); and

#### Parameters

This module provides procedures to determine the following parameter:

Parameter	SI Unit	Description
$\Delta C_{BSL,planned}$	t-CO <sub>2</sub> -e	Net greenhouse gas emissions in the baseline from planned deforestation

#### **II. PROCEDURE**

The baseline net GHG emissions for planned deforestation will be determined as:

$$\Delta C_{BSL, planned} = \sum_{t=1}^{t^*} \sum_{i=1}^{M} \left( \left( D\%_{planned,i,t} * A_{planned,i} * L - D_i \right) * \Delta C_{BSL,i} \right) + GHG_{BSL-E,i,t} \right)$$
(1)

Where:

$\Delta C_{BSL,planned}$	Net greenhouse gas emissions in the baseline from planned deforestation; t $\rm CO_{2^{-}}$ e
D% <sub>planned</sub> ,i,t	Projected annual proportion of land that will be deforested in stratum <i>i</i> during year <i>t</i> . If actual annual proportion is known and documented (e.g. 25% per year for 4 years), set to proportion; if not known, use Eq. 2 to calculate; %
A <sub>planned,i,</sub>	Total area of planned deforestation over the baseline period for stratum <i>i</i> ; ha
L-D <sub>i</sub>	Likelihood of deforestation for stratum <i>i</i> ; %
$\Delta C_{BSL,i}$	Net carbon stock changes in all pools in the baseline stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
GHG <sub>BSL-E,i,t</sub>	Greenhouse gas emissions as a result of deforestation activities within the project boundary in the baseline stratum <i>i</i> during project year <i>t</i> ; t $CO_2$ -e year <sup>-1</sup>
i	1, 2, 3, <i>M</i> strata
t	1, 2, 3, $t^*$ years elapsed since the projected start of the REDD project activity

## Part 1. Calculating annual area of land deforested

# **1.1** Identify the agent of planned deforestation in each baseline stratum *i*

This definition follows the CDM: EB 23, Annex 18

Additional emission reductions cannot be claimed for application of BL-DFW within the boundaries as defined in BL-PL.

In the simplest scenario the agent is an already defined individual, organization or corporation.

If the agent is not yet defined (i.e. the Government or an alternative agent currently controls the land and the exact agents of deforestation are yet to be determined but will have government sanction) then the most likely "class of deforestation agents" shall be identified. Examples of deforestation agent classes include:

- Entities (individuals, companies, associations) practicing similar deforestation practices and post deforestation land use practices such as:
  - Agribusinesses implementing industrial scale agriculture
  - Large scale agriculturalists practicing farming on parcels larger than 500 ha
  - o Ethnic or religious groups pursuing large scale agriculture
- Individuals or entities implementing specific legal land use regulation(s)

The selection of class of agent must be justified through stratification of the region and demonstration with historical records that the identified class of agent is the most common purchaser of similar lands in the identified strata. Stratification shall follow the following guidance and procedures:

Strata must be spatially discrete and defined on the basis of forest carbon stocks. Strata shall reflect biophysical parameters relating to forest productivity, and activity-driven parameters relating to distinct conversion practices. Illustrative parameters include:

Biophysical parameters

- a. Soil type
- b. Elevation
- c. Precipitation regime
- d. Temperature
- e. Slope and aspect
- f. Tree species composition
- g. Age class/disturbance history
- h. Stand density

Activity-related parameters

- a. Distance to transportation networks (roads, rivers)
- b. Distance to deforested land or forest edge
- c. Distance to towns and villages

#### **1.2 Area of deforestation** A<sub>planned,i</sub>

For all instances of planned deforestation REDD projects, there must be an **immediate sitespecific threat of deforestation**. The threat must be concrete and would lead to deforestation within a defined period of time.

This threat must be demonstrated by documentary proof of the following:

- Legal permissibility for deforestation<sup>3</sup>;
- Suitability of project area for conversion to alternative non-forest land use<sup>4</sup>;
- If applicable, evidence of likely transfer of ownership to baseline agent of deforestation or class of agent of deforestation must be demonstrated by one of the following forms of evidence originating prior to the date of all evidence on pursuit of carbon finance/consideration of REDD:
  - Bona fide bidding process for the project area that reflects value of the area and with the expressed intent to deforest;
  - Purchase offer of the project area by an entity that is clearly dedicated to agricultural, grazing or urban development activities;
  - Other evidence that control of the project area would have been transferred to the baseline agent or class of agents in the absence of the project;
- If government approval is required for deforestation to occur, the intention to deforest within the project area must be demonstrated by evidence:
  - Recent approval from relevant government department (local to national) for conversion of forest to an alternative land use; or
  - Documentation that a request for approval has be filed with the relevant government department for permission to deforest and convert to alternative land use;
- Intent to deforest<sup>5</sup>—intention to deforest must be demonstrated by the following form of evidence originating prior to the date of all evidence on pursuit of carbon finance/consideration of REDD:
  - Where deforestation is by an identified class of agents: A documented history (for example government data or maps) of similar planned deforestation activities by class of agents, of planned deforestation within the five years previous to without-project deforestation.

<sup>&</sup>lt;sup>3</sup> Permissibility shall be with reference to relevant laws and legal requirements. When considering legal permissibility the area of allowed deforestation shall be considered relative to total property areas including areas already deforested.

<sup>&</sup>lt;sup>4</sup> Suitability should include accessibility to relevant markets, suitability of soils, topography and climate.

<sup>&</sup>lt;sup>5</sup> Intent to deforest by baseline agent of deforestation

 Where a specific baseline agent has been identified: Either a valid and verifiable land use management plan for deforesting the project area, or a documented history (for example government data or maps) of similar planned deforestation activities by the baseline agent of planned deforestation within the five years previous to without-project deforestation.

The proportion of the total parcel area planned to be deforested cannot exceed the legal mandate unless common practice in a proxy area shows that the mandates are not enforced.

#### **1.3 Rate of deforestation** *D%*<sub>planned,i,t</sub>

The methodology requires knowledge of the rate (area deforested per year) at which the planned areas will be deforested to give an area per stratum (*i*) per year (*t*) through the project period.

Where a valid verifiable plan exists for rate at which deforestation is projected to occur, this rate shall be used.

If no verifiable plan exists, the rate shall be established by examining proxy areas. Proxy areas may or may not be under the management of the project area's baseline agent of deforestation or class of deforestation agents<sup>6</sup>. A minimum of 6 proxy areas shall be included.

The following criteria for applicability of proxy areas for determination of deforestation rate must be met:

- 1. Land conversion practices shall be the same as those used by the baseline agent or class of agent
- 2. The post-deforestation land use shall be the same in the proxy areas as expected in the project area under business as usual
- 3. The proxy areas shall have the same management and land use rights type as the proposed project area under business as usual
- 4. If suitable sites exist they shall be in the immediate area of the project; if an insufficient number of sites exists in the immediate area of the project, sites shall be identified elsewhere in the same country as the project; if an insufficient number of sites exists in the country, sites shall be identified in neighboring countries
- 5. Agents of deforestation in proxy areas must have deforested their land under the same criteria that the project lands must follow (legally permissible and suitable for conversion—see section 1.1 above).
- 6. Deforestation in the proxy area shall have occurred within the 10 years prior to the baseline period.

<sup>&</sup>lt;sup>6</sup> Note the difference between baseline deforestation on proxy lands, that may or may not be managed by the agent/class of deforestation, and baseline deforestation in Module LK-ASP "WoPR," which is on land specifically managed by the agent/class of deforestation.

- 7. The three following conditions shall be met:
  - The forest types surrounding the proxy area or in the proxy area prior to deforestation shall be in the same proportion as in the project area (±20%).
  - Soil types that are suitable for the land-use practice used by the agent of deforestation in the project area must be present in the proxy area in the same proportion as the project area (±20%). The ratio of slope classes "gentle" (slope <15%) to "steep" (slope ≥15%) in the proxy areas shall be (±20%) the same of the ratio in the project area.</li>
  - Elevation classes (500m classes) in the proxy area shall be in the same proportion as in the project area (±20%).

The proxy area will be used to estimate an average proportion of land that is cleared each year, thus a sufficient number of parcels are needed to be representative of the common practice in the proxy area, and hence also in the project area.

Examination of proxy areas may be through original data collection (field measurements and/or remote sensing analysis) or where appropriate use of directly applicable existing data generated from credible sources.

The annual deforestation would be calculated with Equation 2:

$$D\%_{planned,i,t} = \begin{pmatrix} \sum_{pn=1}^{n^*} \begin{pmatrix} D\%_{pn} \\ Yrs_{pn} \end{pmatrix} \\ n \end{pmatrix}$$

(2)

Where:

D%planned,i,t	Projected annual proportion of land that will be deforested in stratum <i>i</i> during year <i>t</i> . If actual annual proportion is known and documented (e.g. 25% per year for 4 years), set to proportion; %
D% <sub>pn</sub>	Percent of deforestation in land $parcel^7 pn$ etc of a proxy area as a result of planned deforestation as defined in this module; %
Yrs <sub>pn,</sub>	Number of years over which deforestation occurred in land parcel <i>pn</i> in proxy area; years
n	Total number of land parcels examined
pn	1, 2, 3,n <sup>*</sup> land parcels examined in proxy area
i	1, 2, 3, <i>M</i> strata

<sup>&</sup>lt;sup>7</sup> Parcels are a unit of land area. A stratum may contain many parcels.

If no proxy area exists under the same land use management/rights type, then representative areas under different land use right types shall be examined and documentation must be provided establishing that the lands are representative.

## **1.4 Likelihood of deforestation** *L-D<sub>i</sub>*

Where forest areas are under government control and the areas have been zoned for deforestation, a suitable representative sample of similar zoned areas must be examined to define the likelihood of deforestation occurring. The likelihood (L- $D_i$ ) will be equal to the proportion of similarly zoned proxy areas deforested within the previous five years within the appropriate stratum.

The criteria for selection of proxy areas is given in Section 1.2.

For all other planned deforestation areas (i.e. areas not both under government control and zoned for deforestation), L- $D_i$  shall be equal to 100%.

## **1.5 Risk of abandonment**

Identify a minimum of 5 proxy areas<sup>8</sup> deforested by the same 'class of deforestation agent'<sup>9</sup> at least ten years previously. If any of the proxy areas have been abandoned to forest regrowth then the planned deforestation activity is not eligible and this module shall not be used.

## Part 2. Baseline carbon stocks<sup>10</sup>

The net carbon stock changes in the baseline is equal to the baseline pre-deforestation stock minus the long-term carbon stock after deforestation and minus the baseline stock that is harvested and stored long-term in wood products.

$$\Delta C_{BSL,i} = C_{BSL,i} - C_{BSL,post,i} - C_{BSL,wp,i}$$
(3)

Where:

$\Delta C_{BSL,i}$	Net carbon stock changes in all pools in the baseline in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
C <sub>BSL,i</sub>	Carbon stock in all pools in the baseline in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
<b>C</b> <sub>BSL,post,i</sub>	Carbon stock in all pools in the baseline post-deforestation in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
C <sub>BSL,WP,i</sub>	Carbon stock sequestered in wood products in the baseline in stratum $i$ ; t CO <sub>2</sub> -e ha <sup>-1</sup>

<sup>&</sup>lt;sup>8</sup> See Part 1.2 for criteria for acceptable proxy areas

<sup>&</sup>lt;sup>9</sup> See Part 1.1; if the agent is an already defined individual, organization or corporation identify the class of agent the agent belongs to

<sup>&</sup>lt;sup>10</sup> Stock estimates shall occur for the pools defined through the framework module REDD-MF

#### *i* 1, 2, 3, ...*M* strata

For calculation of carbon stock sequestered in wood products, see the Module "Estimation of carbon stocks and changes in carbon stocks in the harvested wood products carbon pool in REDD project activities" (CP-W).

With regard to emissions, instead of tracking annual emissions through burning and/or decomposition, this methodology employs the simplifying assumption that all carbon stocks are emitted in the year deforested and that no stocks are permanently sequestered (beyond 100 years after deforestation). This assumption applies regardless of whether burning is employed as part of the forest conversion process or as part of post conversion land use activities.

#### 2.1 Forest carbon stocks

 $C_{BSL,i} = C_{AB\_tree,i} + C_{BB\_tree,i} + C_{AB\_non-tree,i} + C_{BB\_non-tree,i} + C_{DW,i} + C_{II,i} + C_{SOC,i}$   $\tag{4}$ 

#### Where:

C <sub>BSL,i</sub>	Carbon stock in all pools in the baseline in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
<b>C</b> <sub>AB_tree,i</sub>	Carbon stock in above ground biomass in the baseline in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
<b>C</b> <sub>BB_tree,i</sub>	Carbon stock in below ground biomass in the baseline in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
<b>C</b> <sub>AB_non-tree,i</sub>	Carbon stock in aboveground non-tree vegetation in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
<b>C</b> <sub>BB_non-tree,i</sub>	Carbon stock in belowground non-tree vegetation in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
C <sub>DW,i</sub>	Carbon stock in dead wood in the baseline in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
<i>CLI,i</i>	Carbon stock in litter in the baseline in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
C <sub>SOC,i</sub>	Carbon stock in soil organic carbon in the baseline in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
i	1, 2, 3, <i>M</i> strata

Carbon pools excluded from the project can be accounted as zero. For the determining which carbon pools must be included in the calculations as a minimum, see tool T-SIG and the framework module – REDD-MF.

#### 2.2 Post-deforestation carbon stocks

Post-deforestation carbon stocks should be the long-term average stocks on the land following deforestation. Post-deforestation carbon stocks can be measured in proxy areas or values may be taken from credible and representative literature sources (e.g. the peer-reviewed literature or data published by the IPCC or the FAO). Where stocks accumulate through time the ultimate

(highest) stock shall be used and where stocks are in a cycle<sup>11</sup> the mean stock across the cycle shall be used.

$C_{BSL, post, i} = C_{AB}$	$B_{a_{tree,i}} + C_{BB_{tree,i}} + C_{AB_{non-tree,i}} + C_{BB_{non-tree,i}} + C_{DW,i} + C_{U,i} + C_{SOC,PD-BSL,i} $ (5)
Where:	
C <sub>BSL,post,i</sub>	Carbon stock in all pools in the baseline post-defore station in stratum i; t $\rm CO_2$ -e ha <sup>-1</sup>
<b>C</b> <sub>AB_tree,i</sub>	Carbon stock in aboveground tree biomass in stratum <i>i</i> ; t CO <sub>2</sub> -e ha <sup>-1</sup>
<b>C</b> <sub>BB_tree,i</sub>	Carbon stock in belowground tree biomass in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
<b>C</b> <sub>AB_non-tree,i</sub>	Carbon stock in aboveground non-tree vegetation in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
<b>C</b> <sub>BB_non-tree,i</sub>	Carbon stock in belowground non-tree vegetation in stratum <i>i</i> ; t CO <sub>2</sub> -e ha <sup>-1</sup>
C <sub>DW,i</sub>	Carbon stock in dead wood in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
C <sub>LI,i</sub>	Carbon stock in litter in stratum <i>i</i> ; t $CO_2$ -e ha <sup>-1</sup>
С <sub>SOC,PD-BSL,i</sub>	Mean post-deforestation stock in soil organic carbon in the post deforestation

Carbon pools excluded from the project can be accounted as zero. Herbaceous non-tree vegetation is considered to be *de minimis* in all instances. For the determination which carbon

pools must be included in the calculations as a minimum, see tool T-SIG and the Framework module – REDD-MF.

stratum i; t CO<sub>2</sub>-e ha<sup>-1</sup>

1, 2, 3, ...*M* strata

## Part 3. Greenhouse gas emissions

The GHG emissions in the baseline within the project boundary shall be estimated as:

$$GHG_{BSL,E,i,t} = E_{FC,i,t} + E_{BiomassBurn,i,t} + N_2O_{direct-N,i,t}$$

Where:

i

GHG <sub>BSL,E</sub>	Greenhouse gas emissions as a result deforestation activities within the project boundary in the stratum <i>i</i> in year <i>t</i> ; $t CO_2$ -e
E <sub>FC,i,t</sub>	Emission from fossil fuel combustion in stratum <i>i</i> in year <i>t</i> ; t CO <sub>2</sub> -e
E <sub>BiomassBurn,i,t</sub>	Non-CO <sub>2</sub> emissions due to biomass burning in stratum <i>i</i> in year <i>t</i> ; t CO <sub>2</sub> -e
N <sub>2</sub> O <sub>direct-N,i,t</sub>	Direct N <sub>2</sub> O emission as a result of nitrogen application on the alternative land use within the project boundary in stratum <i>i</i> in year <i>t</i> ; t $CO_2$ -e

<sup>&</sup>lt;sup>11</sup> Examples include fallow-based agricultural systems (including slash and burn)

(6)

*i i*, 2, 3, ...*M* strata *t i*, 2, 3, ...*t*<sup>\*</sup> years elapsed since the start of the REDD VCS project activity

For the calculation of  $E_{FC,i,t}$ ,  $E_{BiomassBurn,i,t}$  and  $N_2O_{direct-N,i,t}$  the VCS-approved Modules "Estimating emissions from fossil fuel combustion in REDD project activities (E-FFC)", "Estimating non-CO<sub>2</sub> emissions from biomass burning in REDD project activities (E-BB)" and the latest A/R CDM tool "Estimation of direct nitrous oxide emission from nitrogen fertilization"<sup>12</sup> (E-NA) shall be used.

For the determination which sources of emissions must be included in the calculations as a minimum, see tool T-SIG and the framework module – REDD-MF.

## Part 4. Frequency of baseline renewal

The baseline must be revised every ten years for ongoing planned deforestation.

# III. DATA AND PARAMETERS <u>NOT</u> MONITORED (DEFAULT OR MEASURED FOR BASELINE REVISION)

Data / parameter:	A <sub>planned</sub> ,i
Data unit:	На
Used in equations:	1
Description:	Total area of planned deforestation over the fixed baseline period for stratum <i>i</i>
Source of data:	GPS coordinates and/or Remote Sensing data and/or legal parcel records
Measurement procedures (if any):	N/A
Any comment:	

Data / parameter:	D%planned,i,t
Data unit:	% year <sup>-1</sup>
Used in equations:	1,2
Description:	Projected annual proportion of land that will be deforested in stratum <i>i</i> at year <i>t</i>

<sup>&</sup>lt;sup>12</sup> http://cdm.unfccc.int/EB/033/eb33\_repan16.pdf

Source of data:	Analysis of Remote Sensing data and/or legal records for a number of proxy areas
Measurement procedures (if any):	N/A
Any comment:	Shall be revisited at the time of baseline revision

Data / parameter:	L-D <sub>,i</sub>
Data unit:	%
Used in equations:	1
Description:	Likelihood of deforestation in stratum <i>i</i>
Source of data:	Analysis of Remote Sensing data and/or legal records for a number of proxy areas
Measurement procedures (if any):	N/A
Any comment:	For all areas not both under Government control and zoned for deforestation, <i>L-D<sub>i</sub></i> shall be equal to 1
	For areas under Government control and zoned for deforestation <i>L-D<sub>i</sub></i> shall be calculated as the summed proxy areas in the appropriate stratum divided by the areas within these proxy areas that has been deforested within the previous five years.
	Shall be revisited at the time of baseline revision

# IV. PARAMETERS ORIGINATING IN OTHER MODULES

Data / parameter:	C <sub>AB_tree,i</sub>
Data unit:	t CO <sub>2</sub> -e ha <sup>-1</sup>
Used in equations:	4,5
Description:	Carbon stock in aboveground biomass in trees in the baseline in stratum <i>i</i>
Module parameter	CP-AB
originates in:	
Any comment:	

Data / parameter:	C <sub>BB_tree,i</sub>
Data unit:	t CO <sub>2</sub> -e ha <sup>-1</sup>
Used in equations:	4,5
Description:	Carbon stock in belowground biomass in trees in the baseline in stratum <i>i</i>
Module parameter	CP-AB
originates in:	
Any comment:	

Data / parameter:	C <sub>AB_nontree,i</sub> ,
Data unit:	t CO <sub>2</sub> -e ha <sup>-1</sup>
Used in equations:	4,5
Description:	Carbon stock in aboveground non-tree vegetation in the baseline in stratum <i>i</i>
Module parameter originates in:	CP-AB
Any comment:	Herbaceous vegetation considered de minimis in all instances

Data / parameter:	C <sub>BB_nontree,i</sub> ,
Data unit:	t $CO_2$ -e ha <sup>-1</sup>
Used in equations:	4,5
Description:	Carbon stock in belowground non-tree vegetation in the baseline in stratum <i>i</i>
Module parameter originates in:	CP-AB
Any comment:	Herbaceous vegetation considered de minimis in all instances

Data / parameter:	C <sub>DW,i</sub>
Data unit:	t CO <sub>2</sub> -e ha <sup>-1</sup>
Used in equations:	4,5
Description:	Carbon stock in dead wood in the baseline in stratum <i>i</i>
Module parameter originates in:	CP-W

Any comment:

Data / parameter:	C <sub>LI,i</sub>
Data unit:	t $CO_2$ -e ha <sup>-1</sup>
Used in equations:	4,5
Description:	Carbon stock in litter in the baseline in stratum <i>i</i>
Module parameter	CP-L
originates in:	
Any comment:	

Data / parameter:	C <sub>SOC,i</sub>
Data unit:	t CO <sub>2</sub> -e ha <sup>-1</sup>
Used in equations:	4
Description:	Carbon stock in soil organic carbon in the baseline in stratum <i>i</i>
Module parameter	CP-S
originates in:	
Any comment:	

Data / parameter:	C <sub>SOC,PD-BSL,i</sub>
Data unit:	t CO <sub>2</sub> -e ha <sup>-1</sup>
Used in equations:	5
Description:	Mean post-deforestation stock in soil organic carbon in the post deforestation stratum <i>i</i>
Module parameter originates in:	CP-S
Any comment:	

Data / parameter:	C <sub>WP,i</sub>
Data unit:	t CO <sub>2</sub> -e ha <sup>-1</sup>
Used in equations:	4,5
Description:	Carbon stock in wood products in the baseline in stratum <i>i</i>

Module parameter originates in:	CP-W
Any comment:	

Data / parameter:	E <sub>BiomassBurn,i,t</sub>
Data unit:	t CO <sub>2</sub> -e
Used in equations:	6
Description:	Non-CO <sub>2</sub> emissions due to biomass burning in stratum <i>i</i> in year <i>t</i>
Module parameter	E-BB
originates in:	
Any comment:	

Data / parameter:	E <sub>FC,it</sub>
Data unit:	t CO <sub>2</sub> -e
Used in equations:	6
Description:	Emission from fossil fuel combustion in stratum <i>i</i> in year <i>t</i>
Module parameter	E-FFC
originates in:	
Any comment:	

Data / parameter:	N <sub>2</sub> O <sub>direct-N,i,t</sub>
Data unit:	t CO <sub>2</sub> -e
Used in equations:	6
Description:	Direct N <sub>2</sub> O emission as a result of nitrogen application on the alternative land use within the project boundary in stratum <i>i</i> in year <i>t</i>
Module parameter originates in:	E-NA
Any comment:	