**Gold Standard for the Global Goals**

**Template – CO2-Fixation for Afforestation and Reforestation Projects**



**Version 1 – July 2017**

**SECTION A. PROJECT DESCRIPTION**

**A. 1. Title of the project**

Title:

Date:

Version no.:

Gold Standard ID:

**SECTION B. LONG-TERM CO2-FIXATION**

*>>Please outline how your project meets each of the following requirements, referring to any supporting documentation where necessary*

| **Existing ‘tree biomass’ from the carbon stock of the Baseline that is not removed shall be reflected in the growth-model.** |
| --- |
| **Relevant  Not relevant** |
| **...** |

| **A realistic survival-rate shall be reflected in the growth-model.** |
| --- |
| **...** |

**Copy this table for the different growth-models. The detailed year-by-year growth-models shall be reflected in the ClimateProjects system or in a separated spreadsheet.**

**Long-term CO2-Fixation tree biomass**

**Conversion Procedure**

Aboveground tree biomass = Stem volume \* Biomass Expansion Factor \* Wood density \* Carbon fraction \* C to CO2 factor

Belowground tree biomass = Aboveground tree biomass \* Root-to-Shoot ratio

| **Growth-model ID** | **… e.g. Mixed oak 01** | |
| --- | --- | --- |
| **Applied for MUs** | **… This growth-model applies to the following Modelling Units (MUs) - e.g. 001, 002, 003, etc.** | |
| **Calculation model** | **Option 1 - Selective harvesting  Option 1 - Conservation forest  Option 2 - Rotation forestry** | |
| **Time period** | **… years until the equilibrium or average stand biomass is reached.** | |
| **Long-term CO2-Fixation tree biomass**  **In the unit: [m3/ha] or [tdm/ha]** | **Long-term value:** | **…  m3/ha  tdm/ha** |
| **Growth-model:** | **Project-specific  Regional  National  International** |
| **Reference:** | **…** |
| **Justification of growth-model:** | **… How does this value provide the most accurate information for the project?** | |
| **BEF** | **Value:** | **…** |
| **Default value:** | **Project-specific  Regional  National  International  Gold Standard** |
| **Reference:** | **…** |
| **Justification of value:** | **…** | |
| **Wood density** | **Value:** | **…** |
| **Default value:** | **Project-specific  Regional  National  International  Gold Standard** |
| **Reference:** | **…** |
| **Justification of value:** | **…** | |
| **Root-to-Shoot ratio** | **Value:** | **…** |
| **Default value:** | **Project-specific  Regional  National  International  Gold Standard** |
| **Reference:** | **…** |
| **Justification of value:** | **…** | |
| **Long-term CO2-Fixation**  **[tCO2/ha]** | **… tCO2/ha** | |

**Present CO2-Fixation**

**Certificates**

| **The number of sample plots of a *forest inventory* shall be sufficient to meet a MU precision with a maximum error of ±20% at a 90% confidence interval. Where the error is above 20%, the additional difference shall be deducted. Provide an overview for which MUs this requirement was relevant and describe the adaptation.** |
| --- |
| **...** |

**Copy this table for different forest inventories of the Modelling Units (MUs).   
The detailed year-by-year growth-models shall be reflected in the ClimateProjects system or in a separated spread sheet.**

**Present CO2-fixation**

**Summary of a forest inventory**

| **Forest inventory ID** | **… Give this summary of a forest inventory an ID** | |
| --- | --- | --- |
| **This inventory is for the Modelling Unit (MU)** | **…** | |
| **Size of the MU** | **… ha** | **Responsible for the inventory … Name and contact details; email and phone** |
| **Date of inventory** | **… month and year** |
| **Shape of sample plots** | **Circular  Rectangular  Other, …** |
| **Size of sample plots** | **… m2** |
| **Number of sample plots** | **…** |
| **Precision level** | **… %** |
| **Sample plots with slopes >10%** | **Yes  No** |
| **Name of reference document** | **… Spread sheet where the inventory is documented** |
| **Result of the inventory** | **… m3 stem volume per ha** | |
| **Inventory was executed in order to adapt the growth-model** | **…** | |
| **How does the inventory adapt / confirm the growth-model** | **This inventory leads to a  confirmation  adaptation of the existing growth-model.**  **… description / justification** | |
| **Present CO2-fixation** | **… tCO2/ha** | |