Background

In 2012, after an extensive consultation process with key stakeholders, The Gold Standard Foundation made the decision to expand its scope to include ‘Land Use & Forests’.

After almost one year of development and with the continuous input and feedback from over 100 organizations worldwide, the first version of The Gold Standard Afforestation/Reforestation (A/R) Requirements have been released. For the upcoming months, this version will be road-tested by projects with varying scales and activities in different geographical regions. Refinements to the ‘A/R Requirements’ will be made as needed throughout this process. However, the CO2-certificated generated under this version will be classed as regular Gold Standard credits.

We would like to thank ALL stakeholders for their continuous feedback and support throughout this long development process. Our appreciations especially go to:

Eligible Projects

The Gold Standard **A/R Requirements** are for projects that include the planting of trees on land that does not meet the definition of a *forest*\(^1\) at planting start.

Projects can apply all silvicultural systems:
- Conservation forests (no use of timber)
- Forests with selective harvesting
- Rotation forestry

All projects can include agriculture (agroforestry) or pasture (silvopasture) activities.

Eligible host-countries

Projects can be implemented in all countries.

If projects are located in a country or state that has an operational mandatory national or pan-national cap-and-trade scheme to reduce greenhouse-gas emissions, and hereby accounts for its own land-based activities under its national or subnational accounting, the project owner shall follow the ‘A/R Guidelines - Double Counting’ [coming soon].

Guidelines and Background Information

‘Guidelines’ and ‘Background Information’ that are related to The Gold Standard ‘A/R Requirements’ are provided under: [www.CDMGoldStandard.org/LUF_AR-Requirements](http://www.CDMGoldStandard.org/LUF_AR-Requirements)

Forest Stewardship Council (FSC) Partnership

The Gold Standard and FSC are in partnership to promote environmentally appropriate, socially beneficial and economically viable management of the world’s forests. It will be possible for projects to obtain a *dual certification* (Gold Standard and FSC) in a parallel process. Projects seeking *dual certification* will need to comply with all the FSC requirements.

With respect to potential *dual certification* The Gold Standard recognises that FSC certification can replace the requirements of section ‘3. Sustainability’ (except for chapter ‘3.5 Legal Rights’) and chapter ‘7.4 Reporting’ of the ‘A/R Requirements’.

This will simplify the process of a *dual certification*. When applying a *dual certification*, the project owner shall provide the ‘FSC Audit Report’ instead of the template for ‘Sustainability’ and the ‘FSC Annual Surveillance Report’ instead of the template for ‘Annual Report’.

For *dual certification*, FSC certification is required to be valid throughout the *crediting period*.

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\(^1\) **Forest** A forest is defined by the Designated National Authority (DNA) of the project’s host-country: [http://cdm.unfccc.int/DNA/index.html](http://cdm.unfccc.int/DNA/index.html). In case no forest definition is yet given by the DNA, the project owner can take the forest definition of the FAO: [http://www.fao.org/docrep/003/x6896e/x6896e0e.htm](http://www.fao.org/docrep/003/x6896e/x6896e0e.htm) or the national forest definition of the project’s host country.
The following graph provides an overview of the different steps in the Gold Standard process along with the sequence of activities for project registration and the issuance of CO2-certificates:

- **Project Status**
- **Requirements & Guidelines**
  - Relevant documents to be read
- **Pre-Feasibility Assessment**
  - Information checked by the Gold Standard Secretariat
- **Listed**
- **Project Documentation**
  - Templates to be filled and submitted
- **Registered**
  - Initial Certification
    - Third-party audit + Gold Standard review
  - Performance Certification
    - Third-party audit + Gold Standard review
    - Regular cycle at least every 5 years
  - Verified
- **Verified**
  - Reporting
    - Annually
What you should know ...

Structure
The Gold Standard ‘A/R Requirements’ are structured as follows:

Documentation
Templates are used to document evidence that the project meets the requirements. Where useful, inputs to the templates should be backed by supporting documents. These documents can be scientific reports, copies of contracts, meeting minutes, pictures, maps, etc. The filled-in templates together with the supporting documents form the base of information for the certification process.

How to read this document
• Dashed underlined words are defined in this section ‘1. Definitions’.
• Words in italics improve the readability and understanding of the requirements.
• Shall indicates requirements must be followed in order to conform to the standard.
• Should indicates that a certain course of action is preferred but not necessarily required.
• May indicates a course of action is permissible.
• Can is used for statements of possibility and capability.

Clear boxes I The information in the clear boxes is to assist in using this document and to define the different processes which must be followed for each chapter depending on the type of certification being undertaken.

Green boxes I Some of the requirements in this document appear in green boxes1. The project owner shall provide documentary evidence through the templates (and supporting documents) to demonstrate that they meet the requirements outlined in the green boxes.

Grey boxes with a border I Grey boxes with a border highlight the requirements and descriptions that do not require documentary evidence from the project owner unless otherwise noted.

1 If black and white printing is used, the green boxes can be identified as the boxes with no lines as borders.
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1. Definitions

General terms

1. tCO2 | The unit of tCO₂-e (tonnes of CO₂ equivalent) is expressed as tCO₂.

2. Tree | A tree is a perennial woody plant with one or several dominant sprouts that increase its circumference due to secondary growth.

For a practical use of this document the definition of a tree in these ‘A/R Requirements’ goes beyond the scientific definition of a tree and also includes shrubs, palms and bamboo plants. Differences in the context of specific requirements are noted on the individual pages.

For forest inventories of these different types of trees additional guidance is provided by the forest inventory guidelines of the BioCarbon Fund¹.

In any project, trees shall reach a minimum height of 2 meters.

3. Planting | Planting refers to the activity of putting trees in the ground for growth; it also includes sowing or assisted natural regeneration.

Governance

4. Gold Standard Secretariat | The staff of The Gold Standard Secretariat administer and maintain the quality of The Gold Standard, including the execution of the Pre-Feasibility Assessments, answering clarification requests and conducting project spot-checks.

See also: www.CDMGoldStandard.org/LUF_Team

5. Technical Advisory Committee (TAC) | The TAC is an independent technical body of experts for The Gold Standard Foundation. It provides expert advice and strategic input into The Gold Standard requirements.

6. Auditor | The auditor conducts audit processes by assessing the compliance of project information with the requirements of the standard.

For ‘Afforestation/Reforestation’ project activities, The Gold Standard recognises auditors that are:
(a) Accredited by the UNFCCC as a Designated Operational Entity (DOE)² or Accredited Independent Entity (AIE)³ under the sectorial scope of ‘Afforestation and reforestation’, OR
(b) Accredited as a certification body by the FSC under the scope of ‘Forest Management’. FSC auditors shall have at least one member of their audit team with direct experience in certifying carbon forest projects.

Auditors shall have at least one member of their audit team with local experience in the host country.

Contact details of auditors: www.CDMGoldStandard.org/LUF_Auditors

² DOEs DOEs (Designated Operational Entities) are accredited certifiers of the UN climate secretariat: http://cdm.unfccc.int/DOE/list/index.html
³ AIEs AIEs (Accredited Independent Entities) are accredited certifiers of the UN climate secretariat: http://ji.unfccc.int/AIEs/List.html
1. Definitions

7. **Project** | A project is the implementation and management of one or more activities in an area of similar environmental and social characteristics.

8. **Planting start** | The planting start is the date when the first trees are planted.

9. **Project information** | Project information is used as an umbrella term for project documents and supporting documents.

*Project documents* are documents that describe how the project meets the requirements. *Supporting documents* are referenced within the project documents and provide additional evidence to meet the requirements.

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Project Actors

10. **Project owner** | (Source: FSC, where the term is ‘The Organization’) The person or entity that holds or is applying for certification and therefore responsible for demonstrating compliance with the requirements upon which Gold Standard certification is based.

11. **Workers** | (Source: FSC) All employed persons including public employees as well as ‘self-employed’ persons. This includes part-time and seasonal employees, of all ranks and categories, including labourers, administrators, supervisors, executives, contractor employees as well as self-employed contractors and sub-contractors.

12. **Stakeholders** | The stakeholders are persons, groups or entities that may be affected by the project and that show interest in the project.

The following are categories of stakeholders:

(a) Local people impacted by the project or their representatives
(b) Local policy makers and representatives of local authorities
(c) *Designated National Authority (DNA)*[^DNA] and *National Focal Point*[^FocalPoint]
(d) Local NGOs working on topics relevant to the project
(e) The *Gold Standard Regional Manager*[^ResManager] located closest to the project
(f) *International Gold Standard NGO Supporters*[^IntNGO1] and *Gold Standard NGO Supporters*[^IntNGO2] located in the host country of the project.

13. **Customary rights** | (Source: FSC) Rights which result from a long series of habitual or customary actions, constantly repeated, which have, by such repetition and by uninterrupted acquiescence, acquired the force of a law within a geographical or sociological unit.

[^DNA]: [Designated National Authority (DNA)](https://cdm.unfccc.int/DNA/index.html)
[^FocalPoint]: [National Focal Point](http://maindb.unfccc.int/public/nfp.pl)
[^ResManager]: [Gold Standard Regional Managers](www.CDMGoldStandard.org/Contact)
[^IntNGO1]: [International Gold Standard NGO Supporters](www.CDMGoldStandard.org/our-supporters/NGOs - in yellow)
[^IntNGO2]: [Gold Standard NGO Supporters](www.CDMGoldStandard.org/our-supporters/NGOs)
1. Definitions

14. **Project area** | (Source: FSC, where the relevant term is ‘Management Unit’) The project area is a spatial area or areas submitted for certification with clearly defined boundaries managed to a set of explicit long term management objectives.

New areas can be added to an existing project area after its Initial Certification (see chapter ‘7.3 New Area Certification).

The project area can be made up of discrete parcels of land.

15. **Planting area** | The planting area is the part of the project area where tree planting activities take place.

16. **Eligible planting area** | The eligible planting area is the part of the planting area which meets the applicability conditions (chapter ‘5.1 Applicability’).

17. **Non-eligible planting area** | The non-eligible planting area are areas which do not meet the applicability conditions (chapter ‘5.1 Applicability’), but are still part of the project area.

18. **Modelling Unit (MU)** | Modelling Units are distinct parts of the planting area where carbon stocks can be quantified based on applying a forest growth-model.

To meet the precision level for the carbon stocks estimation (see chapter ‘5.7 CO₂-Fixation’), MU areas normally have homogeneous characteristics in their growth patterns, silvicultural treatment and planting date.

19. **New area** | New areas are project areas that are added to an existing project after its ‘Initial Certification’.
20. **CO2-certificate** | An issued CO2-certificate is either a *validated* CO2-certificate, or it is a *verified* CO2-certificate.

A *validated* CO2-certificate represents the expected sequestration of 1 metric ton CO2-equivalent by a Gold Standard A/R project activity. To issue *validated* CO2-certificate the ‘A/R Guidelines - Validated CO2-certificates’ shall be followed. A *validated* CO2-certificate represents an intervention in land-use change that is expected to lead to the sequestration of 1 metric ton of CO2-equivalent. A *validated* CO2-certificate does not represent the actual sequestration of 1 metric ton of CO2-equivalent and cannot be retired. Instead, *validated* CO2-certificates can be *assigned* in the Gold Standard Registry. *Validated* CO2-certificates that are assigned will be retired once they are *verified*.

A *verified* CO2-certificate represents actual sequestration of 1 metric ton CO2-equivalent by a Gold Standard A/R project activity and is stored by the different carbon pools of a forest (see chapter ‘5.2 Calculation of CO2-certificates’). When a *verified* CO2-certificate is issued, it replaces the corresponding *validated* CO2-certificate. A *verified* CO2-certificate can be retired.

The number of CO2-certificates is determined based on the methodology outlined in chapter ‘5. Methodology’.

The vintage of a CO2-certificate represents the expected (*validated* CO2-certificates) or actual (*verified* CO2-certificates) timing for the corresponding sequestration.

21. **Crediting period** | The crediting period is the time span in which the fixation of CO2 can be accounted for and is subject to monitoring.

The crediting period shall be minimum 30 years and maximum 50 years. The project owner selects the crediting period based on the characteristics of the project. The crediting period starts with the planting start and may be up to 2 years prior to the date the project reaches the ‘registration’ status (see chapter ‘7.1 Certification Process’).

22. **Baseline, Leakage and CO2-Fixation** | These terms are defined in the respective chapters ‘5.5 Baseline’, ‘5.6 Leakage’ and ‘5.7 CO2-Fixation’.

23. **Gold Standard Registry** | The Gold Standard Registry is the operating system to administer project information and issue CO2-certificates. It is operated by the company Markit under the guidance of The Gold Standard Secretariat: [www.CDMGoldStandard.org/our-projects/project-registry](http://www.CDMGoldStandard.org/our-projects/project-registry)

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1 Assign | Assigning is the activity with which an account holder of The Gold Standard Registry can mark a *validated* CO2-certificate with a message. Such message should include the name of the receiving organization.
1. Definitions

Certification

24. The following terms are defined in the chapter ‘7.1 Certification Process’:

- Pre-Feasibility Assessment
- Initial Certification
- Performance Certification
- Audit
- Review

25. Corrective Action Request (CAR) | With a CAR, the auditor or The Gold Standard Secretariat requests appropriate action be taken to show compliance with a requirement.

In order to achieve a successful certification, all CARs shall be formally closed.

CARs can be converted to FARs.

26. Forward Action Request (FAR) | With a FAR, the auditor or The Gold Standard Secretariat requests appropriate action be taken to become fully compliant with a requirement.

A FAR will be issued where the impact of the infraction is:
(a) not material within the current certification, AND
(b) unusual or non-systematic, AND
(c) correctable in a specific timeframe less than 5 years.

FARs can be closed by The Gold Standard Secretariat or an auditor.

27. Observation (OBS) | With an OBS, the auditor or The Gold Standard Secretariat provides an observation on possible future non-compliance with a requirement.

Unlike CARs and FARs, observations are warnings and do not need to be formally corrected. They are given special attention during the next certification.

28. Non-Compliance (NC) | The term is defined in the chapter ‘8. Non-Compliance’.

CARs and FARs are converted to NCs when they are not corrected or inadequately addressed by the project owner.
2. Key Project Information

2.1 Key Project Information

The information in this chapter should be used to provide a general overview of the project. The project overview should use the template ‘Key Project Information’ and be no longer than 4-5 pages.

The project owner shall undertake the following process based on the type of certification that is being pursued:

Process for Initial Certification
For the Initial Certification the project owner shall provide the information in requirement 1, using the template ‘Key Project Information’.

Process for Performance Certification
For the Performance Certification the project owner shall provide any updates to the existing filled-in template ‘Key Project Information’. The most recent version of the template shall be used.

Process for New Area Certification
See Performance Certification. The existing version of the template shall be used.

1. A general description shall be provided which includes all of the following items:
   (a) Project activities
   (b) Organisations that are involved in the project (project participants)
   (c) Communities involved in the project
   (d) Location of the project area and the planting area
   (e) Size of the project area and the planting area
   (f) Risk of the project area to change (during the crediting period)
   (g) Risk of the project activities to change (during the crediting period)
   (h) Timeframe for the project activities
   (i) Number of predicted CO2-certificates
   (j) Land-use history and current situation of the project area
   (k) Socio-economic history and current situation
   (l) Forest management applied (past and future)
   (m) Forest characteristics (including main tree species planted)
   (n) Main social impacts (risks and benefits)
   (o) Main environmental impacts (risks and benefits)
   (p) Financial structure
2. **Key Project Information**

   The project owner shall undertake the following process based on the type of certification that is being pursued:

   **Process for Initial Certification**
   For the Initial Certification the project owner shall provide the information in requirement 2 by uploading the shapefiles in its Gold Standard Registry account.

   **Process for Performance Certification**
   For the Performance Certification the project owner shall provide the information in requirement 2 by updating its existing shapefiles in its Gold Standard Registry account.

   **Process for New Area Certification**
   See Performance Certification.

2. The following information shall be clearly defined by the use of shapefiles:
   (a) Project area
   (b) Planting areas
   (c) Eligible planting area
   (d) Modelling Units
   (e) Infrastructure (roads, houses, etc.)
   (f) Water bodies
   (g) Sites with special significance for indigenous people and local communities - resulting from the Local Stakeholder Consultation (LSC)
   (h) Where indigenous people and local communities are situated
   (i) Where indigenous people and local communities have legal rights, customary rights or sites with special cultural, ecological, economic, religious or spiritual significance.

3. Boundaries of the project area and the planting area shall be clearly distinguishable in the field.

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1 Shapefile A shapefile is a digital vector (non-topological) storage format for storing geometric location and associated attribute information.
This section ‘3. Sustainability’ ensures that projects are designed and implemented in a sustainable and participatory way.

In its first chapter ‘3.1 Do-No-Harm Assessment’ the minimum social and ecological safeguards are set. In the following two chapters ‘3.2 Local Stakeholder Consultation’ and ‘3.3 Input & Grievance Mechanism’ requirements are set on how to build a continuous dialogue with stakeholders to ensure participatory implementation.

In chapter ‘3.4 Sustainable Development (SD) Matrix’ the project owner examines the co-benefits and impacts of the project compared to the business-as-usual scenario. Relevant sustainability indicators and safeguards that show risk of non-compliance are subject to continuous monitoring through the ‘3.5 Sustainability Monitoring Plan’. Lastly, chapter ‘3.6 Legal Rights’ and ‘3.7 Risk Register’ provide requirements that safeguard other risks which may impact a project and its long-term viability.

### 3.1 Do-No-Harm Assessment

The ‘Do-No-Harm Assessment’ provides minimum requirements for the social and ecological integrity based on The Gold Standard safeguarding principles.

The project owner shall undertake the following process based on the type of certification that is being pursued:

**Process for Initial Certification**
- For the Initial Certification each of the ‘Do-No-Harm’ requirements shall be assessed on their relevance to the project.
- If not relevant; the project owner shall provide a description to the non-relevance.
- If relevant; the project owner shall provide evidence of how the project is in compliance with the requirement AND provide a rating of the future risk of non-compliance (low, medium, or high).
- If the rating is medium or high; mitigation measures shall be put in place and subject to monitoring under the ‘3.5 Sustainability Monitoring Plan’.

For documentation of meeting these requirements, the project owner shall use the template ‘Do-No-Harm Assessment’.

**Process for Performance Certification**
For the Performance Certification, the project owner shall update the existing filled-in template ‘Do-No-Harm Assessment’. The most recent version of the template shall be used.

**Process for New Area Certification**
For the New Area Certification, the project owner shall update the existing filled-in template ‘Do-No-Harm Assessment’ with the information from the new areas added. The new information shall be clearly distinguishable by the use of a different colour. The existing version of the template shall be used.
### Social

**Indigenous Peoples and Local Communities**

1. Sites with legal rights and customary rights of indigenous people and local communities shall be identified, known and respected by the workers.
2. Sites for special cultural, ecological, economic, religious or spiritual significance to the indigenous people and local communities shall be identified, known and respected by the workers.
3. The transfer of control of any activities from indigenous people and local communities to the project owner shall be documented.
4. The project shall not involve and shall not be complicit in the involuntary relocation of people.
5. On sites with significant disputes, all operations should be stopped until the disputes are resolved.

**Working Conditions**

6. Workers shall be able to establish and join labour organizations.
7. Workers and labour organizations shall be generally satisfied with their working agreements.
8. Working agreements with all individual workers shall be documented and implemented.
9. There shall not be forced labour, as defined by the ILO Forced Labour Convention.
10. There shall not be child labour, as defined by the ILO Minimum Age Convention.
11. If the host country did not ratify one or more of the 8 ILO Fundamental Conventions, the project owner shall provide a written affirmation to uphold them.
12. Copies of the 8 ILO Fundamental Conventions shall be available for workers.

**No Discrimination**

13. The project owner shall not be involved, and shall not be complicit, in any form of:
   (a) sexual harassment, AND
   (b) discrimination based on gender, race, religion, sexual orientation or any other basis.

**Anti-Corruption**

14. The project owner shall not be involved and shall not be complicit in corruption. The project owner shall publicize a commitment not to offer or receive bribes in money or any other form of corruption. The project owner shall comply with anti-corruption legislation where this exists.

**Occupational Health & Safety**

15. There shall be a ‘Health & Safety Policy’ that is documented, implemented and regularly updated. This policy shall include at a minimum:
   (a) provisions for first aid, AND
   (b) provisions for the safe transport of workers, AND
   (c) provisions for timely evacuation of workers to an adequately equipped medical facility in case of serious accident, AND
   (d) a health insurance scheme for workers who are impacted by workplace accidents AND
   (e) if workers stay in camps for a longer period of time, measures shall be provided to ensure that conditions for accommodation and nutrition comply at least with those specified in the ILO Code of Practice on Safety & Health in Forestry.
16. An individual shall be appointed to have overall responsibility for ‘Health & Safety’ at the worksite.
17. Workers shall have job-specific training and supervision to safely implement the project.
18. Workers shall have safe protective equipment, tools and machinery appropriate for their work.

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3. Sustainability

**Environmental**

**Tree species**
19. The genotypes of the tree species planted shall be well-adapted to the site.
20. *Exotic tree species*\(^1\) shall not be used, unless direct experience, or scientific research, demonstrate that there is, or can be, no invasiveness and no adverse impacts.

**Habitat connectivity**
21. Through a smart mosaic of the planting areas, buffer zones and infrastructure habitat connectivity for flora and fauna should be enhanced.

**GMOs**
22. *Genetically Modified Organisms (GMOs)*\(^2\) as defined by FSC shall not be used.

**Biodiversity**
23. Minimum 10% of the project area shall be identified and managed to protect or enhance the *biological diversity*\(^3\) of native ecosystems\(^4\). For this, the HCV\(^5\) approach should be followed.
24. (a) Existing patches of trees or single solitary stems of *native tree species*\(^6\), AND 
   (b) habitats of *endangered species*\(^7\) 
shall always be identified and managed to protect or enhance the *biological diversity*\(^3\).

**Erosion**
25. To ensure healthy soils the following aspects shall be identified and appropriate measures shall be put in place to protect them:
   (a) soil types, AND 
   (b) biota, AND 
   (c) erosion, AND 
   (d) compaction.
26. Ploughing on slopes with a gradient greater than 10% (5°) shall follow the land contour.

---

1 Exotic tree species (Source: FSC where the term is ‘Alien tree species’) A species, subspecies or lower taxon, introduced outside its natural past or present distribution; includes any part, gametes, seeds, eggs, or propagules of such species that might survive and subsequently reproduce.

2 GMO (Source: FSC) An organism in which the genetic material has been altered in a way that does not occur naturally by mating and/or natural recombination. See ‘FSC Interpretation on GMO - FSC-POL-30-602’: [https://ic.fsc.org/policies.338.htm](https://ic.fsc.org/policies.338.htm)

3 Biological diversity (Source: FSC) The variability among living organisms from all sources including, inter alia, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are a part; this includes diversity within species, between species and of ecosystems.

4 Native ecosystem (Adapted from FSC) Sites to favour or restore native species and associations of native species that are typical of the locality, and for managing these associations and other environmental values so that they form ecosystems typical of the locality.

5 HCV High Conservation Value - [www.HCVnetwork.org](http://www.HCVnetwork.org)

6 Native tree species (Source: FSC) Species, subspecies, or lower taxon, occurring within its natural range (past or present) and dispersal potential (that is, within the range it occupies naturally or could occupy without direct or indirect introduction or care by humans.

7 Endangered species All endangered and critically endangered species as defined by the IUCN Red List - [www.IUCNredlist.org](http://www.IUCNredlist.org)
3. Sustainability

**Fertilizers**
27. Fertilizers shall be avoided, or their use shall be minimised and justified.
28. If the aerial application of fertilizer is used, then measures shall be put in place to prevent drift.

**Chemical pesticides**
29. Chemical pesticides shall be avoided, or their use shall be minimised and justified.
30. Chemical pesticides shall be used in accordance with the FSC Pesticides Policy. See guideline FSC-GUI-30-001 on www.pesticides.fsc.org
31. There shall be a ‘Chemical Pesticides Policy’ that is documented, implemented and regularly updated. This policy shall include at a minimum:
   (a) provisions for safe transport, storage, handling and application, AND
   (b) provisions for emergency situations.
32. In the case that chemical pesticides are used and two or more different chemical pesticides are equally effective, the least hazardous chemical pesticide shall be used.

**Biological control agents**
33. Biological control agents shall be avoided, or their use shall be minimised and justified.

**Water resources**
34. On both sides of permanent or temporary water bodies (lakes, streams, rivers, wetlands, etc.) riparian buffer zones of 15 meters shall be implemented on each site. In these riparian buffer zones:
   (a) only native tree species may be planted, AND
   (b) invasive species shall be removed, AND
   (c) all existing vegetation shall be kept, AND
   (d) no timber harvesting activities shall take place, AND
   (e) no use of fertilizer or chemical pesticides.
35. The flows of water bodies shall not be blocked.
36. The groundwater in and around the planting area shall not be negatively affected by the project.

**Waste**
37. All sources of waste and waste products shall be identified and classified. Waste products include amongst others:
   (a) chemical wastes, AND
   (b) containers, AND
   (c) fuels and oils, AND
   (d) human waste, AND
   (e) rubbish (including metals, plastics, organic and paper products), AND
   (f) abandoned buildings, machinery or equipment.
38. Measures for waste products and their spillage shall be in place for safe and environmentally appropriate:
   (a) collection, AND
   (b) transport, AND
   (c) storage, AND
   (d) handling, AND
   (e) disposal.

---

1 FSC Pesticides Policy (Source: FSC) See guideline FSC-GUI-30-001 on www.pesticides.fsc.org
2 Biological control agents (Source: FSC) Organisms used to eliminate or regulate the population of other organisms.
3 Native tree species (Source: FSC) Species, subspecies, or lower taxon, occurring within its natural range (past or present) and dispersal potential (that is, within the range it occupies naturally or could occupy without direct or indirect introduction or care by humans).
4 Invasive species (Source: FSC) Species that are rapidly expanding outside of their native range. Invasive species can alter ecological relationships among native species and can affect ecosystem function and human health.
3. Sustainability

3.2 Local Stakeholder Consultation (LSC)

The requirements for the ‘Local Stakeholder Consultation’ ensure that stakeholders are actively involved in the project from the beginning, thus enabling them to influence the project design and implementation. It shall be finalized before the Pre-Feasibility Assessment of a project has been completed.

This participatory process empowers stakeholders to define the mitigation measures that safeguard the social, economic and environmental success of the project.

The project owner shall undertake the following process based on the type of certification that is being pursued:

Process for Initial Certification
For the Initial Certification the project owner shall provide documentation using the templates ‘Local Stakeholder Consultation’ and following the ‘A/R Guidelines - LSC’.

Process for Performance Certification
For the Performance Certification chapter ‘3.2 Local Stakeholder Consultation’ does not apply. The continuous dialogue is ensured through the requirements of chapter ‘3.3 Input & Grievance Mechanism’ and the yearly reporting and regular certifications that include feedback from The Gold Standard NGO Supporters.

Process for New Area Certification
For the New Area Certification the project owner shall identify the stakeholders that are new to the projects due to its expansion. With these new stakeholders a LSC shall be conducted.

For the documentation, the project owner shall use an empty template ‘Local Stakeholder Consultation’.

1. The Local Stakeholder Consultation (LSC) shall be conducted in accordance with ‘A/R Guidelines - LSC’.

Invitation of Stakeholders
2. The project owner shall proactively invite The Gold Standard Secretariat and the stakeholders, including all Gold Standard NGO Supporters¹ active in the host country of the project, to provide comments on the proposed project in accordance with the guidelines provided in ‘A/R Guidelines - LSC’.

Notice to Designated National Authority and National Focal Point
3. The Designated National Authority (DNA)² or National Focal Point³ shall be notified about the existence of the project.

Timeline
4. The LSC should be conducted prior to the planting start date. If the LSC is conducted after the planting start date, the project owner shall provide further explanation of how comments received during the LSC are taken into account in the project.

Public consultation meeting
5. The LSC shall include at least one public in-person meeting, which shall be open to anyone willing to attend and which shall be conducted in accordance with the guidelines provided in this document.

Input & Grievance Mechanism
6. Projects applying The Gold Standard ‘A/R Requirements’ shall have a formal input and grievance mechanism in place in accordance with the chapter ‘Input & Grievance Mechanism’. This mechanism shall be described during the LSC.

¹ Gold Standard NGO Supporters http://www.cdmgoldstandard.org/our-supporters/ngos
² Designated National Authority (DNA) https://cdm.unfccc.int/DNA/index.html
³ National Focal Point http://maindb.unfccc.int/public/nfp.pl
3. Sustainability

Documentation
7. The LSC documentation shall be prepared using the ‘LSC’ template and in accordance with the guidelines provided in this document. The documentation shall include the outcome from the physical meeting(s) and feedback received via other means, and it shall be submitted for the Pre-Feasibility Assessment.

Confidentiality
8. The LSC documentation shall be made publicly available on The Gold Standard Registry once the project is ‘listed’. Prior to being ‘listed’, only The Gold Standard Secretariat and Technical Advisory Committee shall be able to access the documentation.

Sustainable Development Assessment
9. Part of the LSC is the Sustainable Development Assessment, which makes use of the table below. This table, also called the ‘SD Matrix’, provides a general overview and a rating of the sustainability impacts of a project, together with a list of mitigation measures that relate to these impacts.

The Sustainable Development Assessment shall show that the project, at a minimum, contributes positively to two of the three indicator categories (Environmental, Social Development, Economic & Technical Development) and is neutral in the third category. All individual indicators are given the same weight.

10. For each indicator describe briefly what the without project scenario (baseline scenario) would be and what the situation you aim for in the project is. Based on this description of the baseline and targeted values of your parameters, score each indicator ‘negative (-1)’, ‘positive (+1)’ or ‘neutral (0)’ in comparison with the baseline situation.

11. Negative (-1) indicators can potentially be ‘neutralised’ with mitigation measures. These mitigation measures shall then be monitored under the chapter ‘3.5 Sustainability Monitoring Plan’. All indicators that score positive (+1) or negative (-1) shall also be monitored.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Description and Score</th>
<th>Mitigation measure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Environment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Air quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Water quality and quantity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Soil condition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Other pollutants</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Biodiversity</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Social Development</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. Quality of employment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. Livelihood of the poor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Access to affordable and clean energy services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Human and institutional capacity</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Economic &amp; Technical Development</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Quantitative employment and income generation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Access to investment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. Technology transfer and technological self-reliance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Negative impact:
  - score negative (-1) if the negative impact on the indicator is not fully mitigated
  - score neutral (0) if the impact on the indicator is or is planned to be fully mitigated
- No change in impact: score neutral (0)
- Positive impact: score positive (+1)

Where relevant, describe mitigation measures used to neutralise a negative (-1) score.
3. Sustainability

### 3.3 Input & Grievance Mechanism

The ‘Input & Grievance Mechanism’ provides a transparent and continuous communication channel with stakeholders and is used in addition to the LSC. It ensures that issues that arise during the lifetime of a project are properly addressed.

The project owner shall undertake the following **process** based on the type of certification that is being pursued:

**Process for Initial Certification**
Not applicable, as the project is only starting.

**Process for Performance Certification**
The 'List of Inputs & Grievances' is part of the annual reporting process (see chapter ‘7.2 Reporting’), thus for the Performance Certification all of the annually prepared lists of inputs and grievances since the last certification shall be provided.

**Process for New Area Certification**
See Initial Certification.

1. The project owner shall establish an ‘Input & Grievance Mechanism’ in accordance with the ‘A/R Guidelines - Input & Grievance Mechanism’.
3. Sustainability Monitoring Plan

This chapter provides the requirements for developing the ‘Sustainability Monitoring Plan’ for monitoring the mitigation measures identified in the chapters ‘3.1 Do-No-Harm Assessment’ and ‘3.2 Local Stakeholder Consultation’.

The project owner shall undertake the following process based on the type of certification that is being pursued:

**Process for Initial Certification**
For the Initial Certification the project owner shall provide documentation using the templates ‘Sustainability Monitoring Plan’ which contains the table below.

**Process for Performance Certification**
For the Performance Certification the project owner shall use an empty template ‘Sustainability Monitoring Plan’. To complete the template, copy remaining parameters that have not yet reached their target and add new parameters from the update of the chapter ‘3.1 Do-No-Harm Assessment’ or ‘3.3 Input & Grievance Mechanism’.

**Process for New Area Certification**
For the New Area Certification the project owner shall update the existing filled-in template ‘Sustainability Monitoring Plan’ with the information from the new areas added. The new information shall be clearly distinguishable by the use of a different colour. The existing version of the template shall be used.

1. The project owner shall use the table below to define the monitoring for the mitigation measures identified in the chapters ‘3.1 Do-No-Harm Assessment’ and ‘3.2 Local Stakeholder Consultation’.

2. The selected parameters shall be practical to measure and be relevant to the mitigation measure.

The table format for the ‘Sustainability Monitoring Plan’ is provided below. A separate table should be prepared for each of the parameters to be monitored.

<table>
<thead>
<tr>
<th>Sustainability Monitoring ID</th>
<th>Indicator for</th>
<th>Mitigation measure</th>
<th>Chosen parameter</th>
<th>Current situation of parameter</th>
<th>Estimation of baseline situation of parameter</th>
<th>Target for parameter</th>
<th>Monitoring</th>
<th>How will it be monitored and documented?</th>
<th>Who is responsible for monitoring and documentation?</th>
<th>When will it be monitored (duration and frequency)?</th>
</tr>
</thead>
</table>

The Gold Standard®
Premium quality carbon credits
3. Sustainability

3.5 Legal Rights

This chapter outlines the requirements to ensure that ownership and title for the CO2-certificates and the projects implementation are transparent and enforceable.

The project owner shall undertake the following process based on the type of certification that is being pursued:

Process for Initial Certification
For the Initial Certification the project owner shall provide documentation using the template ‘Project Participants & Secured Titles’ and submit with the signed ‘Gold Standard Terms & Conditions’ and ‘Cover Letter’.

Process for Performance Certification
For the Performance Certification the project owner shall update the existing filled-in template ‘Project Participants & Secured Titles’. The most recent version of the template shall be used.

Process for New Area Certification
For the New Area Certification the project owner shall update the existing filled-in template ‘Project Participants & Secured Titles’ with the information from the new areas added. The new information shall be clearly distinguishable by the use of a different colour. The existing version of the template shall be used.

Secured Titles
1. For all project participants, the following information shall be provided:
   (a) Name and contact details
   (b) Each entity’s legal registration number and documentation by the governing jurisdiction that proves that the entity is in good standing.

2. For the duration of the crediting period the project owner shall:
   (a) own the CO2 user rights or carbon sequestration rights for the project area, AND
   (b) hold an uncontested legal land title for the project area, AND
   (c) own the rights for timber and non-timber forest products for the project area, AND
   (d) hold all necessary permits to implement the project (planting permits, infrastructure permits, harvesting permits, etc.), AND
   (e) participate in the financing of the project.

   If the project owner does not meet all of the above requirements, the persons or legal entities that do meet those respective requirements shall endorse the expected project being undertaken by the project owner through an agreement that aligns with the duration of the crediting period.

Project Representatives
3. The project owner shall define the authorities of all project participants with respect of:
   (a) instructing The Gold Standard Secretariat, AND
   (b) requesting or communicating the addition or edits of project participants, AND
   (c) receiving all information from The Gold Standard Secretariat on matters related to the project.

Terms & Conditions and Cover Letter
4. The project owner shall sign The ‘Gold Standard Terms & Conditions’ and the declarations of the ‘Cover Letter’.
3.6 Risk Register

This section provides requirements to ensure that sufficient human, technical and financial capacities are available to the project in the long-term, and that material risks to the project are mitigated.

The project owner shall undertake the following process based on the type of certification that is being pursued:

**Process for Initial Certification**
- For the Initial Certification each of the following risks shall be assessed on their relevance to the project.
- If not relevant; the project owner shall provide a description of the non-relevance.
- If relevant; the project owner shall score the risk with regard to the viability of the project during the crediting period into the category low, medium, or high. The scoring shall be based on the likelihood of the risk occurring and the impact of that occurrence on the project during the crediting period.
- If the rating is medium or high the mitigation measure shall be described and implemented.

For the documentation, the project owner shall use the template ‘Risk Register’.

**Process for Performance Certification**
For the Performance Certification the project owner shall update the existing filled-in template ‘Risk Register’. The most recent version of the template shall be used.

**Process for New Area Certification**
For the New Area Certification the project owner shall update the existing filled-in template ‘Risk Register’ with the information from the new areas added. The new information shall be clearly distinguishable by the use of a different colour. The existing version of the template shall be used.

The table format for the ‘Risk Register’ is provided below with risk topics.

<table>
<thead>
<tr>
<th>Risk Topics</th>
<th>Risk score, based on likelihood and impact on the project</th>
<th>Mitigation measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management qualifications in forestry, operations, finance, legal</td>
<td>high (+) medium (0) low (-) not relevant (/)</td>
<td></td>
</tr>
<tr>
<td>Workers qualifications in the technical implementation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Technical equipment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Financial means: complete and realistic income streams (investment, funding, co-funding, sales, etc.) and expenditure (administration, infrastructure, machines, labour, audits, unexpected expenditures, etc.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water: drought, flood, hail, snow, heavy rains</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wind: heavy wind, storms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Animals: domestic, wild</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire: natural fires, fire management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diseases: insects, bacteria, viruses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperatures: frost, heat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Irregular resettlement or illicit crop production</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exploitation of underground resources: mining, water, etc.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
4. Additionality

Requirements

4.1 Additionality

The requirements in the section Additionality ensure that projects can demonstrate that they would not have been implemented without the benefits of carbon certification.

The project owner shall select between option 1 OR 2 to demonstrate that the project is additional.

The project owner shall undertake the following process based on the type of certification that is being pursued:

Process for Initial Certification
For the Initial Certification the project owner shall provide documentation using the template ‘Additionality’.

Process for Performance Certification
For the Performance Certification the project owner is not required to update the template ‘Additionality’.

Process for New Area Certification
For the New Area Certification the project owner can select between the following 3 options:

a) Identify key elements of the project’s existing additionally test and provide evidence that these key elements are not changed due to the new areas. Key elements shall include barriers (in case of the barrier analysis), the economic assumptions (in case of the investment analysis), or elements of ‘Option 2 - Positive List’ (in case this was selected). The most recent version of the ‘Additionality - New areas’ template shall be used.

b) Repeat the process for the Initial Certification, but only with regard to the new areas, not the entire project. The most recent version of the ‘Additionality’ template shall be used.

Option 1 - A/R CDM Tools

1. The project shall meet the additionality requirements of the latest version of the A/R CDM ‘Combined tool to identify the baseline scenario and demonstrate additionality in A/R CDM project activities’.

   Link: http://cdm.unfccc.int/methodologies/ARmethodologies/tools/

   The CDM specific terms of the A/R CDM additionality tool (tCERs, A/R CDM project, etc.) shall be interpreted within The Gold Standard context.

   The ‘Guideline on the assessment of investment analysis’ and the ‘Guidelines for objective demonstration and assessment of barriers’ can be used.

   Link: http://cdm.unfccc.int/Reference/Guidclarif/index.html
**4. Additionality**

**Option 2 - Positive List**

2. The project shall meet all of the requirements (a), (b) and (c) in the list below and at least one of the requirements from (d) to (g) in order to be considered as additional under Option 2.

(a) The project is located in a Less Developed Country (LDCs) or in a region with a recent UNDP Human Development Indicator\(^1\) below 0.8.

(b) The project shall have no intention of creating a forest for the commercial use of the timber or non-timber forest products.

(c) The project activities shall not be mandatory by any law or regulation, OR if it is mandatory, it shall demonstrate that these laws or regulations are systematically not enforced.

(d) The project area is located in a region with a mean annual precipitation of less than 600 mm.

(e) The soil pH of the planting area is less than 4.0.

(f) The planting area is planted with minimum 5 different native tree species in mixed stands, covering at minimum 50% of the planting area.

(g) The project area is located:
   - In a country or region with a recent UNDP Human Development Indicator\(^1\) below 0.5, OR
   - In a Small Island Developing State (SIDS)\(^2\)

The different choices under Option 2 are an extraction of choices from the CDM guideline ‘Land type and/or land uses and socio-economic conditions in which afforestation/reforestation project activities are not likely to be implemented without the financial incentives of the CDM’.

Other options not included in this list can be submitted to The Gold Standard Secretariat for approval.

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**Retroactive submission**

3. If the submission to the Pre-Feasibility Assessment was after the planting start, the project owner shall demonstrate that

(a) the revenues from CO2-certificate were seriously considered in the decision to implement the project, AND

(b) there was continuous interest in CO2-certificate for the project in parallel with its implementation.

Evidence to support this can include: contracts, draft versions of project information, correspondence with financial institutions or other stakeholders, minutes and notes of meetings, agreements or negotiations with auditors, publications in newspapers.

For Option 1, this replaces requirement 7 of the ‘Combined tool to identify the baseline scenario and demonstrate additionality in A/R CDM project activities’.

---

**No Deforestation**

4. The planting area shall not have been forest\(^3\) for at least 10 years prior to the planting start, OR

If the planting area was deforested during the 10 years prior to the planting start, the eligibility of the project shall be determined by The Gold Standard Secretariat. This will be done as part of the Pre-Feasibility Assessment.

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\(^2\) Small Island Developing States (SIDS) [www.un.org/special-rep/ohrlls/sid/list.htm](http://www.un.org/special-rep/ohrlls/sid/list.htm)

\(^3\) Forest A forest is defined by the Designated National Authority (DNA) of the project’s host-country: [http://cdm.unfccc.int/DNA/index.html](http://cdm.unfccc.int/DNA/index.html)
5. Methodology

Requirements

The section Methodology describes how a project determines its number of CO2-certificates.

In its first chapter ‘5.1 Applicability’, the planting area is assessed on its eligibility to apply this methodology. The following chapter ‘5.2 Conversion Procedure’ describes the conversion process from cubic meters [m³] of timber to tonnes of carbon dioxide equivalent [tCO2]. In the subsequent chapters the ‘5.3 Calculation of CO2-certificates’ is described, based on the parameters ‘5.4 Project Emissions’, ‘5.5 Baseline’, and ‘5.6 Leakage’ which are deducted from the actual ‘5.7 CO2-Fixation’ by the trees.

5.1 Applicability

The project owner shall undertake the following process based on the type of certification that is being pursued:

Process for Initial Certification
For the Initial Certification the project owner shall provide documentation using the template ‘Applicability’.

Process - Performance Certification
For the Performance Certification the project owner is not required to update the template ‘Applicability’.

Process for New Area Certification
For the New Area Certification the project owner shall update the existing filled-in template ‘Applicability’ with the information from the new areas added. The new information shall be clearly distinguishable by the use of a different colour. The existing version of the template shall be used.

The project area shall meet all of the requirements below for this methodology to be applicable for the calculation of CO2-certificates from the project.

1. Areas shall not be on wetlands

2. Areas with organic soils shall not be drained or irrigated (except for irrigation for planting).

3. Soil disturbance (through ploughing, digging of pits, stump removals, infrastructure, etc.) on organic soils shall be in less than 10% of the area that is submitted to certification (not 10% of the entire project area).

4. The most likely scenario without the project (baseline scenario) shall be defined for the project area. This scenario shall not show any significant increase of the Baseline biomass (‘tree’ and ‘non-tree’).

---

1 Wetland Definition of wetland according to the IPCC: ‘This category includes land that is covered or saturated by water for all or part of the year (e.g. peatland) and that does not fall into the forest land, cropland, grassland or settlements categories.’ Source: IPCC - Good Practice Guidance - Wetlands.

2 Organic soils Organic soils fulfil one of the following requirements:

1. If the soil is never saturated with water for more than a few days, and contains >20% (by weight) of organic carbon (35% organic matter)

2. If the soil is subject to water saturation episodes and has either:

   * >12% (by weight) organic carbon (20% organic matter) if it has no clay
   * >18% (by weight) organic carbon (30% organic matter) if it has >60% clay
   * a proportional lower limit of organic carbon content between 12 and 18% if the clay content of the mineral fraction is between 0 and 60%

3 Significant Significant is defined to be more than 5% of the ‘long-term CO2-Fixation’ - see chapter ‘5.7 CO2-Fixation’.
5. Methodology

5.2 Conversion Procedure

The requirements of the chapter *Conversion Procedure* prescribe how to convert from the unit of cubic meters [m³] or tonnes of dry matter [tdm] to tonnes of carbon [tC] and then to tonnes of carbon dioxide equivalent [tCO₂].

The project owner shall undertake the following process based on the type of certification that is being pursued:

**Process for Initial Certification**
For the Initial Certification the project owner shall provide documentation with the templates of the chapters ‘5.5 CO₂-Fixation’, ‘5.6 Baseline’ and ‘5.7 Leakage’.

**Process - Performance Certification**
For the Performance Certification the project owner is not required to update the conversion factors.

**Process for New Area Certification**
For the New Area Certification the project owner shall update the existing filled-in templates (see Initial Certification) with the information from the new areas added. The new information shall be clearly distinguishable by the use of a different colour. The existing version of the template shall be used.

1. *Conversion factors* shall be determined at the level of a Modelling Unit:
   (a) Wood Density
   (b) Biomass Expansion Factor
   (c) Root-to-Shoot ratio

   All factors shall be based on the best available scientific sources.

For the conversion the following factors are the influencing parameters:

**Aboveground tree biomass**

\[ \text{Aboveground tree biomass} = \text{Stem volume} \times \text{Biomass Expansion Factor} \times \text{Wood density} \times \text{Carbon fraction} \times \text{C to CO}_2 \text{ factor} \]

**Belowground tree biomass**

\[ \text{Belowground tree biomass} = \text{Aboveground tree biomass} \times \text{Root-to-Shoot ratio} \]
5. Methodology

**Wood density** | The woody density is the ratio between the mass of dry wood divided by its volume.

Example:

Wood density
= Mass / Volume
= 0.6 t / 1 m³
= 0.6 t / m³

Often the unit t (tonnes) is expressed as t dm (tonnes of dry matter).

**Biomass Expansion Factor (BEF) and Root-to-Shoot ratio** | The following graph shows how the BEF and Root-to-Shoot ratio are determined based on the ratio of different parts of the tree.

Examples:

BEF
= Aboveground tree biomass / Stem biomass
= 1.3 m³ / 1 m³
= 1.3

Root-to-Shoot ratio
= Belowground tree biomass / Aboveground tree biomass
= 0.3 m³ / 1.3 m³
= 0.23

The different factors can be influenced by one or several of the following attributes. The project owner should consider these in deciding which factors are most appropriate for a particular Modelling Unit:

- Some BEFs already include the Root-to-Shoot ratio.
- The ‘Stem volume’ is based on a specific diameter of stump (x cm). The BEF should relate to this.
- Most Root-to-Shoot ratios are calculated from the ‘Tree volume’ (including branches and leaves/needles), but some are based on the ‘Stem volume’.
- In cases where a Biomass Conversion and Expansion Factor (BCEF) is used the factors BEF and Wood density are both integrated.
- The BEF can be age-dependent and thus change over time.
- Dead-wood differs in its Wood density, BEF and Root-to-Shoot ratio from the living tree.
- Scientific sources can relate to a relative figure (0.4) or calculative figure (1.4).

**Conservative Approach**

2. When aggregated together, the factors shall lead to a conservative calculation approach. This means that in the consideration and calculation of uncertainties:
   (a) the CO2-Fixation shall not be overestimated, AND
   (b) the Baseline and Leakage shall not be underestimated.
5. Methodology

3. The following default factors shall be used for all conversions:
   (a) 0.5 \(\text{[tC/tdm]}\) as the ‘Carbon fraction’ for ‘tree biomass’
   (b) 0.4 \(\text{[tC/tdm]}\) as the ‘Carbon fraction’ for ‘non-tree biomass’
   (c) \(44/12\) \(\text{[tCO2/tC]}\) is used to convert ‘C to CO2’

4. The following default factors shall be used when no rigorous scientific information is available:

   For the parameters of CO2-Fixation:
   (a) 0.3 \(\text{[tdm/m}^3\]}\) Wood density
   (b) 1.1 \(\text{[]}\) BEF
   (c) 0.2 \(\text{[]}\) Root-to-Shoot ratio for ‘tree biomass’

   For the parameters of Baseline or Leakage:
   (d) 0.7 \(\text{[tdm/m}^3\]}\) Wood density
   (e) 3.5 \(\text{[]}\) BEF
   (f) 0.8 \(\text{[]}\) Root-to-Shoot ratio for ‘tree biomass’
   (g) 4.0 \(\text{[]}\) Root-to-Shoot ratio for ‘non-tree biomass’

More default values for ‘tree biomass’ are in the IPCC Guidelines for National GHG Inventories:

More default values for ‘non-tree biomass’ are in the IPCC Guidelines for National GHG Inventories:
5. Methodology

5.3 Calculation of CO2-certificates

1. The number of CO2-certificates is determined for every year (t) of the crediting period using the following formula.

\[
\text{CO2-certificates} = \left(\frac{\text{CO2-Fixation}}{\text{Baseline}} - \text{Leakage} - \text{Other Emissions}\right) \times \text{Eligible planting area}
\]

Summary of this Methodology

- The number of CO2-certificates is determined for each Modelling Unit. Therefore, the CO2-Fixation of every MU is determined and its portion of the total Baseline and total Leakage is deducted.
- The sum of all MUs CO2-certificates make up the CO2-certificates of the entire project.
- With the applicability conditions this methodology assumes no significant increase in the Baseline, so the Baseline is only deducted in year 1 (t=1).
- All Leakage is deducted in year 1 (t=1).
- Other Emissions are either linked to the Baseline and therefore deducted in year 1 (t=1) or linked to the use of fertilizer and deducted over time.

The project owner shall undertake the following process based on the type of certification that is being pursued:

Process for Initial Certification
For the Initial Certification the project owner shall meet the requirements by entering the numbers from chapters ‘5.4 Other Emissions’, ‘5.5 Baseline’, ‘5.6 Leakage’ and ‘5.7 CO2-Fixation’ in its ClimateProjects2 account. The system will create a ‘MU Report’ that the project owner shall submit to The Gold Standard Registry.

Process for Performance Certification
For the Performance Certification the project owner shall meet the requirements by updating the numbers from the chapters ‘5.4 Other Emissions’ and ‘5.7 CO2-Fixation’ and in its ClimateProjects account. The system will create a ‘MU Report’ that the project owner shall submit to The Gold Standard Registry.

Process for New Area Certification
See Initial Certification. To enter the numbers of the new areas into the ClimateProjects system the project owner has to create a new ‘Modelling Units Cluster’.

For all types of certification the project owner can also submit its ‘MU Report’ by creating a spreadsheet with the calculations instead of using the ClimateProjects software.

---

1 Significant is defined to be more than 5% of the ‘long-term CO2-Fixation’ - see chapter ‘5.7 CO2-Fixation’.
2 ClimateProjects is a web-based software that allows project owners to manage their carbon calculation: [www.ClimateProjects.info](http://www.ClimateProjects.info)
5. Methodology

Scientific formulas of this Methodology

\[ \text{CO}_2\text{-certificates } \mu U, t = (\text{CO}_2\text{-Fixation } \mu U, t \cdot \text{Baseline } \mu U, t \cdot \text{Leakage } \mu U, t \cdot \text{Other Emissions } \mu U, t) \cdot \text{Eligible planting area } \mu U \]

\[ \text{CO}_2\text{-certificates } \text{Project area, } t = \sum_{\mu U=1}^{\text{MUs}} \sum_{t=1}^{\text{CP}} \text{CO}_2\text{-certificates } \mu U, t \]

\[ \text{CO}_2\text{-certificates } \text{Project area, } t = [tCO_2] \]

\[ \text{CO}_2\text{-certificates } \text{MU, } t = [tCO_2] \]

\[ \text{MUs} = 1, 2, 3, \ldots \text{ MUs of a project area} \]

\[ t = 1, 2, 3, \ldots \text{ Years of the crediting period} \]

\[ \text{CP} = [\] \text{ Year the crediting period ends} \]

The CO2-certificates are determined in a cumulative way, alongside the growth of a forest. This implies that at the beginning of a project, emissions from the parameters Other Emissions, Baseline, and Leakage can outweigh the parameter CO2-Fixation and the net amount of CO2 sequestered is negative. In this case, no CO2-certificates are generated. Only when the accumulation becomes positive can CO2-certificates be issued.

The different parameters of this formula are described on the following pages.

Carbon Pools

For the calculation of the parameters CO2-Fixation, Baseline and Leakage, the following carbon pools shall be assessed:

<table>
<thead>
<tr>
<th>Carbon Pools</th>
<th>Includes</th>
<th>CO2-Fixation</th>
<th>Baseline</th>
<th>Leakage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree biomass</td>
<td>Aboveground Stem, branches, bark</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>Belowground Tree roots</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Non-tree biomass</td>
<td>Aboveground Grass, herbs, etc.</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Belowground Roots of grass, herbs, etc.</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Soil</td>
<td>Organic material</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Harvested wood (timber &amp; energy wood)</td>
<td>Furniture, construction material, etc.</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Litter &amp; Lying dead-wood</td>
<td>Leaves, small fallen branches, lying dead wood</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Standing dead-wood is part of the carbon pool ‘tree biomass’.

Positive leakage as well as market leakage shall not be accounted for under this methodology.
5. Methodology

### 5.4 Other Emissions

The requirements in this chapter relate to the emissions that result from certain land preparation techniques, from the use of fertilisers and energy during project activities, and from nitrogen-fixing trees.

#### Site preparation
1. Where existing ‘tree’ and ‘non-tree’ biomass of the Baseline is burned for the purpose of land preparation, an additional 10% of the Baseline shall be deducted. This is to account for the non-CO2 green-house-gas emissions (N2O and CH4) that are released during the burning process.

#### Fertilizer
0.005 tCO2 per kg of nitrogen (N) fertilizer shall be deducted. No differentiation is made between synthetic and organic fertilizer.

#### Combustion of fossil fuel
2. Non-CO2 green-house-gas emissions caused by the use of fossil fuel from project activities (flights, management operations, etc.) are insignificant and may therefore be neglected.

#### N-fixing trees
3. Non-CO2 green-house-gas emissions caused by the use of N-fixing species may be conservatively assumed to be zero.

The project owner shall undertake the following process based on the type of certification that is being pursued:

**Process for Initial Certification**
For the Initial Certification the project owner shall tick in its ClimateProjects account the Modelling Units (MUs) where the Baseline vegetation was burned (requirement 1). For the fertilizer (requirement 2) the project owner shall submit the amounts in the provided fields of its ClimateProjects account.

**Process for Performance Certification**
No monitoring for requirement 1. For requirement 2 the project owner shall update the amount of fertiliser used - in accordance with the figures submitted in its ‘Annual Reports’.

**Process for New Area Certification**
See Initial Certification.

For all types of certification the project owner can also submit its ‘MU Report’ by creating a spread sheet with the calculations instead of using the ClimateProjects software.
5. Methodology

5.5 Baseline

The Baseline is the estimated carbon stock that would occur in the baseline scenario. The baseline scenario describes the activities that would occur in the absence of the proposed project.

The project owner shall undertake the following process based on the type of certification that is being pursued:

Process for Initial Certification
For the Initial Certification the project owner shall provide documentation using the template ‘Baseline’. The resulting figures of this documentation shall be submitted to the projects ClimateProjects account.

Process for Performance Certification
For the Performance Certification the project owner is not required to update the template ‘Baseline’.

Process for New Area Certification
For the New Area Certification the project owner shall update the existing filled-in template ‘Baseline’ with the information from the new areas added. The new information shall be clearly distinguishable by the use of a different colour. The existing version of the template shall be used. The resulting figures of this documentation shall be submitted to the projects ClimateProjects account.

For all types of certification the project owner can also submit its ‘Modelling Units Report’ by creating a spreadsheet with the calculations instead of using the ClimateProjects software.

1. The Baseline shall be determined by estimating the ‘tree’ and ‘non-tree’ biomass that is present in the eligible planting area just prior to the planting start.

2. To determine the Baseline of the eligible planting area the land shall be
   (a) stratified according to its vegetation types (grassland, bushland, etc.), AND
   (b) for each of these strata scientifically based project-specific, regional or national default values shall be found which state ‘tree’ and ‘non-tree’ biomass of these vegetation types.

   International default values\(^2\) from the IPCC shall only be used if no other values are available.

3. The Baseline shall be determined on a Modelling Unit (MU) level using the following formula:

\[
\text{Baseline MU, t} \quad [tCO_2/ha] = \frac{\text{Baseline Eligible planting area} \quad [tCO_2]}{\text{Eligible planting area} \quad [ha]}
\]

The Baseline is deducted in the first year (t=1).

4. The Baseline is not subject to monitoring.

---

1 Project-specific
Project-specific default values are generated through a ‘tree’ and ‘non-tree’ inventory on the project area.

2 International default values
International default values are found e.g. in the IPCC Guidelines for National GHG Inventories:
5. Methodology

5.6 Leakage

Leakage are emissions that occur due to a *shift of activities* from the inside of a project area to the outside of a project area.

These *shifts of activities* can cause four different categories of Leakage by:

(a) collection of wood (for firewood, charcoal, etc.)
(b) timber harvesting
(c) agriculture (crop cultivation, shrimp cultivation, etc.)
(d) livestock.

These four categories are used in the formulas below.

Note that only the ‘tree biomass’ affected by these activity shifts shall be considered.

---

The project owner shall undertake the following process based on the type of certification that is being pursued:

**Process for Initial Certification**
For the Initial Certification the project owner shall provide documentation using the template ‘Leakage’. The resulting figures of this documentation shall be submitted to the projects ClimateProjects account.

**Process for Performance Certification**
For the Performance Certification the project owner is not required to update the template ‘Leakage’.

**Process for New Area Certification**
For the New Area Certification the project owner shall update the existing filled-in template ‘Leakage’ with the information from the new areas added. The new information shall be clearly distinguishable by the use of a different colour. The existing version of the template shall be used. The resulting figures of this documentation shall be submitted to the projects ClimateProjects account.

For all types of certification the project owner can also submit its ‘Modelling Units Report’ by creating a spreadsheet with the calculations instead of using the ClimateProjects software.

1. To determine the Leakage of a project area the formulas below shall be applied.

2. Leakage shall be determined on a Modelling Unit (MU) level using the following formula:

\[
\text{Leakage MU}_{t} [\text{tCO}_2/\text{ha}] = \text{Leakage Project area} [\text{tCO}_2] / \text{Eligible planting area} [\text{ha}]
\]

Leakage is deducted in the first year \((t=1)\).

3. With the application of formulas below all potential Leakage caused by a project within its crediting period is accounted for in year 1. Thus the parameter is not subject to monitoring.
5. Methodology

Formula for category (a) (b) and (c)

**Leakage Project area [tCO2]**
\[
\text{Leakage} \; \text{Project area} \; [tCO2] = \text{Area} \; [\text{ha}] \times \% \; \text{of activity-shift} \; [\%] \times \text{CO2-stock} \; [tCO2/\text{ha}]
\]

- **Area** = Land within the project area where the activity is taking place
- **% of activity-shift** = Percentage of the activity that
  - will be displaced during the crediting period, AND
  - will have impact on the ‘tree biomass’ outside the project area

- The factor is determined by:
  - credible estimations, OR
  - a representative survey

- **CO2-stock** = Average stock of ‘tree biomass’ on the area where the activity will be displaced to

If it is not known where the activity will be displaced to, the CO2-stock = the average stock of ‘tree biomass’ of a natural forest in the projects host-country

Formula for category (d)

**Leakage Project area [tCO2]**
\[
\text{Leakage} \; \text{Project area} \; [tCO2] = \text{Displaced heads} \; [\text{head}] \times \text{Grazing capacity} \; [\text{ha/head}] \times \text{CO2-stock} \; [tCO2/\text{ha}]
\]

- **Displaced heads** = Amount of heads that
  - will be displaced during the crediting period, AND
  - will have impact on the ‘tree biomass’ outside the project area

- The factor is determined by:
  - credible estimations, OR
  - a representative survey

- **Grazing capacity** = Grazing capacity of the area where the livestock will be displaced to

- **CO2-stock** = Average stock of ‘tree biomass’ on the area where the activity will be displaced to

If it is not known where the activity will be displaced to, the CO2-stock = the average stock of ‘tree biomass’ of a natural forest in the project’s host-country
5. Methodology

5.7 CO2-Fixation

The project owner shall undertake the following process based on the type of certification that is being pursued:

**Process for Initial Certification**
For the Initial Certification the project owner shall provide documentation using the template ‘CO2-Fixation’. Where useful, the supporting documents should contain a spreadsheet file with the growth-models of the Modelling Units. The resulting figures of this documentation shall be submitted to the projects ClimateProjects account.

**Process for Performance Certification**
For the Performance Certification the project owner shall update the existing filled-in template ‘CO2-Fixation’ based on the information of the ‘Forest Inventory’. The most recent version of the template shall be used. The resulting figures of this documentation shall be used to update the projects ClimateProjects account.

**Process for New Area Certification**
For the New Area Certification the project owner shall update the existing filled-in template ‘CO2-Fixation’ with the information from the new areas added. The new information shall be clearly distinguishable by the use of a different colour. The existing version of the template shall be used. The resulting figures of this documentation shall be submitted to the projects ClimateProjects account.

For all types of certification the project owner can also submit its ‘Modelling Units Report’ by creating a spreadsheet with the calculations instead of using the ClimateProjects software.

---

1. The yearly (t) CO2-Fixation is determined at the level of Modelling Unit (MU) during the crediting period.

2. For every MU a growth-model and conversion factors (see chapter ‘5.2 Conversion Procedure’) shall be determined.

3. The conversion factors allow the conversion of the ‘Stem volume’, which is normally measured in cubic meters [m³] during the forest inventories, to ‘tree biomass’ with the unit tCO2. For the conversion the chapter ‘5.2 Conversion Procedure’ shall be followed.

   The conversion factors are not subject to monitoring.

4. Existing ‘tree biomass’ from the carbon stock of the Baseline that is not removed shall be reflected in the growth-model.

5. A realistic survival-rate shall be reflected in the growth-model.
5. Methodology

Long-term CO₂-Fixation

6. The long-term CO₂-Fixation shall be determined depending on the silvicultural method applied / envisioned (see options below).

**Option 1 - Selective harvesting or Conservation forest**

If the silvicultural method applied/envisioned is selective harvesting \(^1\) or conservation forest \(^2\), the long-term CO₂-fixation is determined by the ‘tree biomass’ when a MU reaches its equilibrium.

If the ‘tree biomass’ is still increasing at the end of the crediting period, the long-term CO₂-Fixation is determined by the ‘tree biomass’ of a MU in the year the crediting period ends.

\[
\text{CO₂/ha} \quad \text{Long-term CO₂-Fixation} \quad \text{Time}
\]

**Option 2 - Rotation forestry**

If the silvicultural method applied/envisioned is ‘rotation forestry’, the long-term CO₂-Fixation is the average ‘tree biomass’ of a MU during the planting start and the end of the crediting period.

\[
\text{CO₂/ha} \quad \text{Long-term CO₂-Fixation} \quad \text{Time}
\]

\[
\text{CF}_{\text{MU, long-term}} = \frac{\sum_{t=1}^{T} \text{CF}_{\text{MU, t}}}{T}
\]

1. Selective harvesting: Selective harvesting is done through the continuous harvest of single trees or groups of trees by maintaining forest on the area.
2. Conservation forest: Conservation forest is forest managed without any intention of tree cutting.

\[
\text{CF}_{\text{MU, long-term}} = \text{[CO₂/ha]} \quad \text{Long-term CO₂-fixation of a MU}
\]

\[
\text{CF}_{\text{MU, t}} = \text{[CO₂/ha]} \quad \text{CO₂-fixation of a MU in year t}
\]

\[
T = [\text{ ]} \quad \text{Number of years between the planting start and the end of the crediting period}
\]

\[
t = 1, 2, 3, ... \quad \text{Years}
\]
5. Methodology

Forest Inventory

The project owner shall undertake the following process based on the type of certification that is being pursued:

Process for Initial Certification
Normally, there are no results of a forest inventory during the Initial Certification. If there are, follow the process of the Performance Certification.

Process - Performance Certification
For the Performance Certification the project owner shall provide documentation using the template ‘Forest Inventory’. Its supporting documents shall contain a spreadsheet file with the calculation of the forest inventory for each MU. The resulting figures of this documentation shall be used to update the template ‘CO2-Fixation’.

Process for New Area Certification
See Initial Certification.

1. The growth-models of the MUs shall be confirmed/adjusted by the results of MU specific forest inventories.

2. For the forest inventories the guidelines of the BioCarbon Fund\(^1\) or CarbonFix\(^2\) shall be followed.

3. The process of a forest inventory shall be documented clearly and easy replicated.

4. Forest inventories shall be repeated at minimum before every Performance Certification.

5. 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 (see example below).

Example:
A forest inventory determined the mean ‘Stem volume’ of a MU at 100 m\(^3\)/ha with an error of 23%. The error is 3% higher than required: 3% * 100 m\(^3\)/ha = 3 m\(^3\)/ha
The mean ‘Stem volume’ which can be accounted for is: 100 - 3 = 97 m\(^3\)/ha


6. Carbon Performance

Requirements

Note the requirements of this chapter are preliminary and during the road-testing period of the ‘A/R Requirements’ this chapter will still be subject to adaptations.

6.1 Carbon Performance

The section *Carbon Performance* describes how a project owner must ensure that the project carbon stocks are aligned with the number of issued CO2-certificates over time. This section also defines the activities that shall be implemented if the project carbon stocks decline below the levels of issued CO2-certificates.

The project owner shall undertake the following process based on the type of certification that is being pursued:

**Process for Initial Certification**
Not applicable.

**Process for Performance Certification**
For the Performance Certification the project owner shall provide documentation using the template ‘Carbon Performance’. The most recent version of the template shall be used.

**Process for New Area Certification**
Not applicable.

1. At any time during a crediting period, the project owner shall ensure that the quantity of the *validated and verified* CO2-certificates with respect to the project is less than or equal to the project’s expected carbon stocks (*validated CO2-certificates*) and actual carbon stocks (*verified CO2-certificates*).

2. Incidents, or events, that effect compliance with requirement 1 shall be reported to The Gold Standard Secretariat. If they occur outside a certification process, the incidents or events shall be reported to The Gold Standard Secretariat no more than 30 days after their discovery. The template ‘Carbon Performance’ shall be used for this reporting.

3. If compliance with requirement 1 is not maintained, the project owner shall demonstrate to The Gold Standard Secretariat how the project will realistically recover appropriate levels of carbon stocks to comply with requirement 1.

   The project owner shall use one or more of the following approaches:
   (a) *retiring/locking of CO2-certificates* from the project which are not yet transferred or retired/locked
   (b) *purchasing of CO2-certificates* from any other Gold Standard certified projects (these can also be from other project types such as renewable energy)
   (c) *replanting of an appropriate planting area and recovery of the project carbon stocks over time*
   (d) *planting of new areas to generate further CO2-certificates*

   During the period where the project owner is not in compliance with requirement 1, an equal number of CO2-certificates from The Gold Standard Compliance Buffer will be put ‘on-hold’.

4. Further CO2-certificates shall only be issued for the project after the project owner has complied with requirement 1.

If the project owner after 5 years cannot demonstrate that compliance with requirement 1 will occur, the project owner shall follow the Non-Compliance (NC) process as outlined in section ‘8. Non-Compliance’.
The project cycle includes the certification and reporting process for The Gold Standard ‘A/R Requirements’. Fees related to the different steps are outlined on: www.CDMGoldStandard.org/LUF_Certification-process

The project cycle includes the following:

<table>
<thead>
<tr>
<th>Project Status</th>
<th>Requirements &amp; Guidelines</th>
<th>Pre-Feasibility Assessment</th>
<th>Initial Certification</th>
<th>Validated CO2-certificates</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Relevant documents to be read</td>
<td>Information checked by The Gold Standard Secretariat</td>
<td>Third-party audit + Gold Standard review</td>
<td>CO2-certificates</td>
</tr>
</tbody>
</table>

- **Reporting**
  - Annually

- **Performance Certification**
  - Third-party audit + Gold Standard review

- **Verified CO2-certificates**
  - Regular cycle at least every 5 years

- **Verified**
7. Project Cycle

7.1 Certification Process

1. A **Pre-Feasibility Assessment** is conducted only once by The Gold Standard Secretariat at the beginning of the project.

2. The Pre-Feasibility Assessment is followed by the Initial Certification, which includes an audit by an accredited auditor together with a review.

3. A **Performance Certification** shall follow the Initial Certification. Performance Certification shall occur at least every 5 years until the end of the crediting period.

Pre-Feasibility Assessment

4. During the Pre-Feasibility Assessment The Gold Standard Secretariat checks the project information through a *desk review*. It assesses whether the project is likely to comply with the requirements. The outcome of the Pre-Feasibility Assessment is the **Pre-Feasibility Assessment report**.

5. The Pre-Feasibility Assessment starts when the project owner has
   (a) signed and submitted the template ‘Cover Letter’ and ‘General Terms and Conditions’, AND
   (b) submitted the template ‘Project Participants & Secured Titles’, AND
   (c) submitted the first documents of the project information through The Gold Standard Registry, AND
   (d) paid the fee for the Pre-Feasibility Assessment.

6. A Pre-Feasibility Assessment can lead to:
   (a) a successful **Pre-Feasibility Assessment report** without any CARs, FARs or OBSs, OR
   (b) a successful **Pre-Feasibility Assessment report** with CARs, FARs or OBSs, OR
   (c) an unsuccessful **Pre-Feasibility Assessment report** with at least one NC.

7. With a successful **Pre-Feasibility Assessment report** the project will obtain ‘listed’ status in The Gold Standard Registry. This means that:
   (a) the project information is made publicly available, AND
   (b) the project owner can promote the project according the ‘A/R Guidelines - Brand and Communications’.

---

1 Fee See: [www.CDMGoldStandard.org/LUF_Certification-process](http://www.CDMGoldStandard.org/LUF_Certification-process)
## Project Cycle

### Every certification includes a third-party audit by an accredited auditor together with a review.

### Audits

#### 8. An audit is the assessment by an auditor to confirm the project’s compliance with the requirements. It shall include, but is not limited to:

- **Audit planning**, AND
- **Desk review**, AND
- Field visit (field observations and interviews with workers and stakeholders), AND
- Reporting.

#### 9. The desk review shall take into account:

- the submitted project information (**project documentation and supporting documents**), AND
- the ‘Annual Reports’ since the last certification, AND
- the audit report and review report of the last certification.

#### 10. Once an audit is completed, the auditor provides a written report to The Gold Standard Secretariat. This report shall:

- give an overview of the audit (including the quantity of validated and verified CO2-certificates)
- describe the competency of the audit team
- give an overview on the history of the document
- describe the objectives and scope of the report
- describe the level of assurance and materiality levels for the estimation of CO2-certificates
- describe the methodology applied
- provide a summary of the assessment from the audit process
- provide an audit conclusion and opinion
- list the individual requirements of the assessment, including its Corrective Action Requests (CARs), Forward Action Requests (FARs), Observations (OBSs), and Non-Conformities (NCs).

The auditor shall use the template provided: [www.CDMGoldStandard.org/LUF_AR-Requirements](http://www.CDMGoldStandard.org/LUF_AR-Requirements)

#### 11. An audit can lead to:

- a successful **audit report** without any CARs, FARs and OBSs, OR
- a successful **audit report** with FARs and OBSs, OR
- an unsuccessful **audit report** with at least one NC.
7. Project Cycle

**Review**

12. During the review period The Gold Standard Secretariat, Gold Standard NGO Supporters and the Technical Advisory Committee may open new CARs or FARs on the project and the successful audit report.

If any new CARs or FARs are opened, these shall be addressed by either the project owner or the auditor. The Gold Standard Secretariat will document this in a review report.

13. The review period ends
   (a) after 8 weeks for the Initial Certification or after 3 weeks for a Performance Certification, AND
   (b) when no more CARs are pending.

14. When the review period has ended, the project will obtain ‘registered’ or ‘verified’ status (‘registered’ in case of the Initial Certification). This means that:
   (a) the updated project information is made publically available, AND
   (b) the project owner can promote the project according the ‘A/R Guidelines - Brand and Communications’.

**Issuance**

15. After the review period the validated and verified CO2-certificates are issued into the project owner’s Gold Standard Registry account.

16. 20% of the issued validated and verified CO2-certificates shall be transferred into The Gold Standard Compliance Buffer. The transfer is distributed pro rata according to the vintage years. The project owner may transfer CO2-certificates from other Gold Standard certified projects to the Gold Standard Compliance Buffer in lieu of the CO2-certificates from the project.
7. Project Cycle

7.2 Reporting

Through the ‘Reporting’ requirements, transparent and frequent updates on the project’s performance and compliance are ensured, in addition to the information provided by the certifications.

1. *Reporting* shall take place on an annual basis, after the Initial Certification was completed.

2. For the *reporting*, the project owner shall use the template ‘Annual Report’ and
   (a) upload it through The Gold Standard Registry, AND
   (b) send it to stakeholders that show interest in the project.

3. The ‘Annual Report’ shall focus on information since the last ‘Annual Report’. It shall include:
   (a) a summary of the recent projects activities
   (b) a clear statement on how stakeholders can provide inputs/grievances
   (c) a list of inputs/grievances which have been received together with their respective answers/actions

   The following documents shall be submitted together with the ‘Annual Report’ as supporting documents:
   (d) an update of the template ‘Key Project Information’
   (e) an update of the list of stakeholders who will receive the ‘Annual Report’
   (f) the most recent certification report
   (g) an update of the template ‘Project Participants & Secured Titles’ (in case of changes)

   The project owner shall attest to the accuracy of the information provided by its signature on the ‘Annual Report’.


   Identified or reported Non-Compliances (NCs) are processed according to the procedures outlined in section ‘8. Non-Compliance’.
### 7.3 New Area Certification

At any time after the Initial Certification, the project owner can add new areas to its exiting project. For this the following requirements are set.

1. By adding new areas the ‘project’ definition (chapter ‘1. Definitions’, term 6) shall be maintained.

2. The new areas shall meet ALL requirements of the ‘Gold Standard A/R Requirements’ according to the processes outlined for New Area Certification under the individual chapters.

3. The crediting period of new areas cannot go beyond the crediting period of the existing project, as by the Initial Certification.
### 7. Technical Procedure & Formatting

1. The project owner shall create an account on The Gold Standard Registry - [www.CDMGoldStandard.org/our-projects/project-registry](http://www.CDMGoldStandard.org/our-projects/project-registry)

2. With this account project information can be submitted for the Pre-Feasibility Assessment and any certification.

3. All project information, except confidential information, shall be made publically available through The Gold Standard Registry.

4. For the documentation of the project information templates are available at [www.CDMGoldStandard.org/LUF_AR-Requirements](http://www.CDMGoldStandard.org/LUF_AR-Requirements)

5. Templates shall be filled out in green using a Calibri, size 10 font.

6. Red coloured comments in the template shall be deleted before document submission.

7. The project documents and supporting documents shall be submitted in
   (a) English, OR
   (b) a language that has been agreed upon by the project owner, The Gold Standard Secretariat and the auditor.

8. Figures above one thousand shall be formatted with a space (1’000’000), and decimals will be separated by a point (1.35).

9. Pictures, graphs, tables and supporting documents within project documentation shall be clearly marked with a unique ID.

10. Maps shall include the following information:
    (a) Name of the project
    (b) ID of the project
    (c) Legend
    (d) Printing date
    (e) Scale
    (f) Direction of North
    (g) GPS coordinate system (e.g. WGS 84)
    (h) GPS grid
    (i) Infrastructure (roads, houses, etc.) and rivers
    (j) Information on the satellite or aerial picture (date, resolutions, data source)
8. Non-Compliance

Requirements

Note that the requirements of this chapter are preliminary and during the road-testing period of the ‘A/R Requirements’ this chapter will still be subject to adaptations.

8.1 Non-Compliance Process

1. Project owners shall report possible Non-Compliances (NCs) on requirements within 30 days of their discovery.

2. Any reported NC will be investigated by The Gold Standard Secretariat together with the Technical Advisory Committee.

   A NC shall have at minimum one of the following characteristics:
   (a) it continues over a long time
   (b) it is repeated/systematic
   (c) it affects a significant area
   (d) it causes significant damage

3. Depending on the extent of the reported NC, the project owner’s account on The Gold Standard Registry may be frozen during the time of investigation.

4. When evidence is found confirming the NC the project is suspended.

5. When evidence is found confirming the project cannot rectify the NC, the suspended project is cancelled, and the project is no longer a Gold Standard certified project.

6. The cancellation of a project leads to the retirement of a corresponding number of CO2-certificates from The Gold Standard Compliance Buffer. With this, the permanence of CO2-certificates that have been transferred or retired is maintained.
History of this document

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Nature of revision</th>
</tr>
</thead>
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<tr>
<td>0.9</td>
<td>August 2013</td>
<td>Initial publication</td>
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