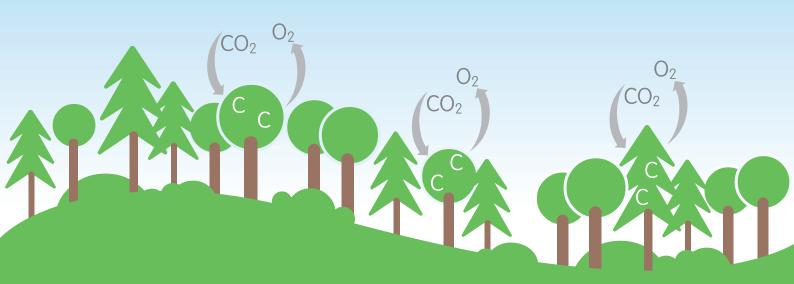
Woodland Carbon Code

Requirements for voluntary carbon sequestration projects





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Introduction

Background and purpose

Trees and forests can mitigate climate change through sequestering carbon. Woodland creation therefore provides an attractive option for companies, organisations and individuals wishing to reduce their carbon footprint while also delivering a range of other environmental and social benefits.

The Woodland Carbon Code supports the move towards a low carbon economy through encouraging investment in woodland creation in the UK for climate change mitigation. It sets out robust requirements for voluntary carbon sequestration projects that incorporate core principles of good carbon management as part of modern sustainable forest management. Specific objectives of the Code include:

- ensuring high standards of sustainable forest management in line with the UK Forestry Standard and supporting Guidelines for Climate Change;
- setting out requirements of good practice in terms of both carbon sequestration and sustainable forest management;
- providing access to forest carbon measurement protocols that enable consistent and rigorous measurement of carbon uptake in woodlands;
- establishing a system of independent quality assurance through the introduction of procedures for registering, validating and verifying woodland carbon projects.

In addition to helping to tackle our greenhouse gas emissions woodland creation can also provide many other benefits and ecosystem services such as habitat restoration, rural business development and diversification, a sustained timber supply, landscape improvement, and the enhancement of urban areas.

Use of the Code

The Code sets out design and management requirements for voluntary UK based projects that aim to sequester carbon through woodland creation. In scope it accounts for carbon sequestration and emissions within the woodland. It does not account for carbon stored in forest products or the carbon saved when substituting wood products for other products with a larger carbon footprint. In order for UK based woodland creation projects to gain certification to the Code, they must be initially validated by an independent certification body which has been accredited by the UK Accreditation Service. Individual projects or groups of projects ('group schemes') can be certified. In order to remain certified, projects or group schemes must be regularly verified by an independent certification body. Certification to the Code is voluntary and does not imply endorsement by the Forestry Commission of the value of any investment.

Woodland carbon projects contribute to just one of a hierarchy of actions that can help to combat the effects of climate change. Before considering such mitigation measures individuals, businesses and other organisations need to:

- understand their carbon footprint;
- take steps to prevent avoidable emissions;
- reduce any remaining emissions.

See www.decc.gov.uk/en/content/cms/emissions/co2_ offsetting/co2_offsetting.aspx

All organisations are encouraged to voluntarily measure and report their net greenhouse gas emissions, including emissions reductions achieved through investment in greenhouse gas reduction projects outside of their operations or supply chain. The government recommends that organisations should follow their Guidance on How to Measure and Report your Greenhouse Gas Emissions (www.defra.gov.uk/environment/economy/businessefficiency/reporting).

A supplement to the Government guidance (Guidance on Reporting Greenhouse Gas Removals and Emissions from Domestic Woodland Creation) recognises the carbon benefits of woodland creation and allows organisations that invest in or are directly associated with projects certified to the Code, to report those carbon savings as part of their net greenhouse gas emissions. Where organisations wish to report the carbon sequestration and emissions associated with woodland creation projects in the UK, they must follow the supplementary guidance alongside the Woodland Carbon Code. The Government has announced that it will introduce a regulation in April 2013 to require reporting of greenhouse gas emissions by quoted companies. Such companies can choose to demonstrate their actions to compensate for these emissions in line with Government guidance. Such reporting may become a requirement for all large companies in 2016, following a review of evidence from the first two years of reporting by quoted companies.

Carbon sequestration resulting from projects certified to the Code will, in common with other woodland creation, contribute directly to the UK's national targets for reducing emissions of greenhouse gases. The Code does not provide a route to conformance with regulatory carbon reduction mechanisms (e.g. the CRC Energy Efficiency Scheme or EU Emissions Trading Scheme); or the generation of internationally tradable carbon credits linked to either the compliance or voluntary markets.

Future changes to the Code

This is Version 1.1 of the Woodland Carbon Code released in July 2012. Additional guidance and interpretation is available at www.forestry.gov.uk/carboncode.

The Code is subject to annual review, which will ensure the standards it contains are clear and reflect best practice in terms of the requirements and guidance available. A management group including the Forestry Commission and a range of interested stakeholders will oversee future management of the Code.

Updates to the Code and the supporting guidance are available at www.forestry.gov.uk/carboncode. Please refer to this website for the most up to date version.

Projects should adhere to the most current version of the Code. Certified projects must comply with changes within one year of their introduction.

The structure of the Code

The Code sets out overarching principles and specific requirements that woodland carbon sequestration projects must incorporate in order to demonstrate best practice. Core principles and requirements for each key aspect of project design and management are addressed in turn, along with the means of verification and further guidance.

Principle

The overarching principle behind the requirement is stated first to establish the overall context.

Aspect 1

Requirement

These are the compulsory elements of the Code and are generally stated as 'shall'. Certification bodies will check and verify that each requirement is being met.

Means of verification

Illustrates the type of objective evidence that the certification body will consider in order to verify that the requirements are being met. These means of verification are split into two categories using the following symbols:

- > These items **must** be provided if they are applicable to the project.
- These items are alternatives which can be used to provide additional evidence.

The examples given are not exclusive or exhaustive – certification bodies will not always need to use all the verifiers suggested, and may seek verification in other ways.

The certification body will take into account the size of the project when assessing evidence.

Guidance

These notes help the project developer to understand how the requirements should be applied in practice. For each section, additional guidance is available online via the following link:

1 Eligibility

Principle

The project must be eligible in terms of:

- The timing of the project.
- The activity (Creating new woodland on unwooded land of a suitable site type).
- Legal ownership of the land and compliance with all relevant legislation.
- Demonstrating additionality (i.e. only viable due to availability of carbon finance).

1.1 **Project start date and duration**

Requirement

Until 31 July 2013, projects with a start date 1 January 2000 or later may register. After 31 July 2013, projects shall register within 2 years of the project start date.

All projects shall be validated within 3 years of registration.

Projects shall have a clearly defined duration and shall not exceed 100 years.

Means of verification

- Project Design Document.
- Grant scheme contract.
- Carbon contract.

1.2 Eligible activities

Requirement

Eligible activities shall be those relating to woodland creation on soils which are not organic.

Means of verification

For unwooded land:

- Statement on land use in Project Design Document.
- Land use records.
- Reference to historical maps, images or other sources such as the Forestry Commission planting and felling database (Grants & Licences Online Service).
- Signed attestation from independent expert.

For soil type:

- Statement on soil type in Project Design Document.
- Results of field survey for soil type (see 3.2).
- Soil maps.
- Signed attestation from independent expert.

Guidance

The **project start date** is the date when planting begins.

The **project duration** is the time over which project activities are to be implemented, monitored and carbon sequestration claims are to be made.

The project duration should not be confused with permanence. All projects shall involve a permanent land-use change to woodland cover (See 2.4).

Further online guidance >

Guidance

Woodland creation is the direct, human-induced conversion to woodland of land that has not been under tree cover for at least 25 years.

Organic soil consists of more than 50cm deep organic (or peat) surface horizon overlaying the mineral layer or rock. A list of organic soils is available.

See 3.2 for details of field survey for soil type.

1.3 Eligible land

Requirement

Legal ownership, or tenure of the project area for the duration of the project, can be demonstrated.

Means of verification

- Declaration in Project Design Document detailing nature and location of ownership or tenure documentation and landlords consent.
- Solicitor's letter.
- > Title deeds.
- > Land registry records.
- > Grant contract signed by owner.
- Certified copy of lease (if leasehold).

1.4 Compliance with the law

Requirement

Projects shall comply with the law.

Means of verification

- Statements in Project Design Document.
- Project Design Document outlines a system or procedures for being aware of and implementing requirements of new legislation.
- No evidence of non-compliance.

Guidance

Legal ownership may be demonstrated by signed attestation, title deeds, a solicitor's letter, or evidence of longterm unchallenged use.

See 2.4 relating to risks and permanence.

Further online guidance >

Guidance

Certification is not a legal compliance audit. The certification body will be checking that there is no evidence of non-compliance with relevant legal requirements, including:

- managers and employees understand and comply with all legal requirements relevant to their responsibilities;
- all documentation, including procedures, work instructions and contracts, meet requirements;
- no issues of legal non-compliance are raised by regulatory authorities or other interested parties.

1.5 Additionality

Requirement

Additionality shall be demonstrated through the following tests. Test 1 and Test 2 plus ONE OF Test 3 or Test 4 must be passed to ensure additionality.

- 1. **Legal test**: There is no legal requirement specifying that woodlands should be created. Compensatory planting is not eligible.
- 2. **Contribution of Carbon Finance test**: Carbon finance payments shall cover at least 15% of the project's planting and establishment costs.
- Investment test: Projects shall demonstrate that without carbon finance the woodland creation project is either not the most economically or financially attractive for that area of land or is not economically or financially viable on that land at all.
- 4. **Barrier test**: Existing barriers to the implementation of the project have been overcome. Barriers could be social, economic or environmental.

Means of verification

- Statements in Project Design Document.
- Analysis of the actual planting, establishment and management costs and the proportion covered by carbon finance.
- A full financial analysis (including expected costs and revenues) of the funds required to implement and manage for the project duration.
- > Further evidence to support barrier test if used.

Guidance

Grant-aided woodland

Projects receiving grant aid under a government-funded initiative are eligible provided additionality tests are met.

2 Project governance & documentation

Principle

Projects need an effective and transparent governance structure with clear lines of accountability and clearly documented processes so as to enable cost-effective verification and to build confidence with stakeholders. Specifically to:

- Ensure carbon sequestration is not double-counted.
- Risks are adequately managed to sustain, in perpetuity, the carbon sequestered by the new woodland.
- Claims about carbon are clear and accurate.
- Effective monitoring gives up to date information on the project's progress.

2.1 Registry and avoidance of double counting

Requirement

Details of the project and the land to be planted shall be registered on the Register of UK Woodland Carbon Projects.

Means of verification

Land area is recorded on the Register of UK Woodland Carbon Projects.

2.2 **Project Design Documentation**

Requirement

The project shall have a **Project Design Document** (PDD) containing the following information:

- 1. Eligibility (dates, legal aspects, additionality).
- 2. **Project governance and documentation** (registration, design document, management and monitoring).
- Carbon Sequestration (including identification of risks to the achievement and permanence of the carbon benefits, along with relevant risk mitigation strategies).
- 4. Environmental Quality.
- 5. Social Responsibility.

The project shall provide electronically all relevant additional evidence requested within the PDD.

Means of verification

- Project design document.
- Woodland creation grant application
- Boundary map
- Planting map
- Map showing any designated areas

Guidance

The Register of UK Woodland Carbon Projects is available at www.forestry.gov.uk/carboncode A registration form is available online.

Further online guidance >

Guidance

The project should be clearly defined using appropriate maps, identifying all relevant aspects of the woodland resource, including any special characteristics and/or sensitive areas.

A template PDD is available.

2.3 Management plan and capacity

Requirement

Projects shall be managed in accordance with the UK Forestry Standard, including all environmental (See 4) and social (See 5) aspects. There shall be a detailed management plan for the establishment period containing:

- An outline of the necessary inputs and resources including a full financial analysis.
- A summary of operational techniques.
- A chronological plan for initiation of key project activities.
- Consideration of species selection for future climate.

There shall be an outline of the longer-term management intentions, for the project duration and beyond.

The project developer shall have the management capacity necessary to carry out the planned project activities for the duration of the project.

Means of verification

- Management plan deals with all issues above and meets the requirements of the UK Forestry Standard.
- Contract between project parties or statement from landowner sets out longer-term management intentions (including the woodland management regime to be applied).
- > No evidence of non-compliance with the UK Forestry Standard.
- Project Design Document which clearly defines how roles in the project will be fulfilled.
- Project team lists which identify key technical skills.
- > Evidence from previous project experience.

2.4 Management of risks and permanence

Requirement

The project land owner(s) shall commit to a permanent land-use change to woodland and to maintain the project area as a permanent woodland carbon sink. The Project shall demonstrate the commitment to permanence by:

- Identifying risk factors and developing appropriate mitigation strategies as set out in the WCC Risk Assessment.
- Calculating the level of risk according to the guidance on WCC Risk Assessment and contributing to the Woodland Carbon Code buffer.
- Ensuring re-stocking where projects involve harvesting.
- Replanting or undertaking compensatory planting should woodland area be lost due to wind, fire, pests, diseases or development.
- Managing as per the longer-term management intentions for the project duration and beyond (See Section 2.3).

Means of verification

- Risk Assessment.
- > Further evidence to confirm assessment of risk
- Subtraction of carbon buffer in project carbon calculations (Section 3.4).
- Evidence of contracts requiring continued implementation of the Project Design Document by the landowner and requiring the landowner to inform future owners of the commitment to the Woodland Carbon Code.
- Practical evidence of the project developer demonstrating sensitivity to risk factors.
- Field observations confirming that assessment of risk is reasonable.

Guidance

If the project is receiving a woodland grant, any existing woodland management plan may provide sufficient evidence for plans for the establishment period. There should be a process for updating the management plan at the end of this period.

Longer term, a short statement is required to confirm the intended management regime of the woodland for the project duration and beyond.

See the UK Forestry Standard and supporting Guidelines for Climate Change, Soil, Water, Biodiversity, Landscape, Historic Environment and People: www.forestry.gov.uk/ukfs

Further online guidance >

Guidance

Permanence describes the issue of ensuring removal of carbon dioxide from the atmosphere is permanent, and not reversed at a future point in time. Woodland projects carry a risk of reversibility and as such safeguards must be in place to minimise that risk and to guarantee replacement or compensatory woodland should a reversal occur.

Risk management should be built in at every stage of project design. The size of the risk buffer should be determined using the Risk Assessment guidance and specified in carbon sequestration calculations (See 3.4).

2.5 Management of group schemes

Requirement

Groups shall have a nominated Group Manager, and a legally binding agreement defining each project's liability for the group's carbon commitments.

The Group Manager shall have adequate processes in place to:

- Keep records of group participants.
- Represent the group in the certification process.
- Establish procedures for the management of the group participants.
- Undertake internal monitoring, review and any actions resulting from the certification process.
- Ensure that all projects within the group conform to the Code.

Means of verification

- Group Project Design Document.
- Legal agreements between constituent projects and Group Manager
- Group Rules documentation
- Internal monitoring & audit records demonstrating conformance with the Code

2.6 Monitoring

Requirement

The project shall have a monitoring plan in place before the project begins, to quantify and document the progress of carbon sequestration as well as ensure that the project is being managed to the UK Forestry Standard.

Regular monitoring of projects shall take place to demonstrate successful woodland establishment and that tree growth rates are consistent with anticipated carbon uptake as identified in the Project Design Document.

Corrective actions shall be undertaken if establishment and/or growth rates do not meet expectations.

The carbon monitoring plan shall include details of:

- The assessment protocol(s) to be used.
- The frequency of monitoring.
- The sampling frequency/no of sample plots.
- How the data will be reported and quality assured.

Means of verification

- Monitoring plans set out in the Project Design Document.
- Carbon monitoring reports which show progress of carbon sequestration.
- Certification to UK Woodland Assurance Standard or other monitoring demonstrates compliance with UK Forestry Standard.
- No evidence of non-compliance with UK Forestry Standard.

Guidance

Small projects may come together in a **group scheme** for the purposes of certification. Each constituent project shall be entered on the Register of UK Woodland Carbon Projects and a single group Project Design Document shall be produced.

Further online guidance >

Guidance

Monitoring and **Verification** shall first take place within 5 years of validation and thereafter at periods of 10 years or less. The first verification shall incorporate a stocking density survey. A full plot-based survey following the Carbon Assessment Protocol methods A-E shall be carried out as a minimum by year 35 and at the end of the project duration. Further information is available on requirements for monitoring assessments prior to formal reporting.

2.7 Carbon statements and reporting

Requirement

Carbon statements shall comply with recommended claims wording.

Carbon shall only be reported after it is sequestered and verified. Statements made prior to sequestration shall clearly state the timescale over which the carbon is to be sequestered.

The legal rights of all parties to claim or report the carbon benefits of the project shall be clearly stated in the Project Design Document.

Any changes to ownership of the carbon shall be documented and updated in the Register of UK Woodland Carbon Projects.

Means of verification

- Statement of claims in Project Design Document.
- Record in the UK Register of Woodland Carbon Projects.
- Contract(s) between landowner, carbon company/agent and investor state(s) each parties' legal right to claim or report the carbon benefits of the project.
- Signed attestation from each party to the project regarding the agreed approach to carbon statements or reports.

Guidance

A **carbon statement** is simply a statement of what a project will sequester or has sequestered to date. It can be restated by more than one party with an interest in a project.

Where organisations wish to **report** the carbon sequestration and emissions from woodland creation projects, they shall do so in accordance with Defra's Guidance on Reporting Greenhouse Gas Removals and Emissions from Domestic Woodland Creation.

Reporting the contribution of a project towards GHG emissions reduction can only be done once, after the carbon is sequestered, and implies that the tCO_2e reported has been 'retired' (i.e. it cannot be reported again).

Anyone making carbon or other environmental claims should also refer to Defra's Green Claims Guidance.

Further online guidance >

2.8 Woodland Carbon Code registered trademark

Requirement

Certified projects may use the Woodland Carbon Code logo and shall do so in accordance with the Rules of Use.

Means of verification

- > Examples of appropriate use.
- > No evidence of misuse.

Guidance

The Forestry Commission owns the registered trademark 'Woodland Carbon Code'. Anyone using the trademark should comply with its rules of use.

3 Carbon sequestration

Principle

Projects need to meet the following criteria by:

- Clarifying the baseline (business as usual) changes in carbon on the site.
- Minimising any leakage caused by the project.
- Predicting carbon sequestration over and above the baseline changes.
- Setting aside a carbon 'buffer' to insure against unavoidable loss.
- Calculating the net carbon benefit of the project.

3.1 Units of carbon calculation

Requirement

Carbon sequestration shall be calculated and expressed in tonnes of carbon dioxide equivalent (tCO_2e).

'1 Woodland Carbon Unit' may be used to describe 1 tCO $_2$ e sequestered by a project certified to this Code.

Positive values shall denote sequestration and negative values shall denote emissions.

Means of verification

- Project documentation shows all carbon calculations in tCO₂e with positive values representing sequestration and negative values representing emissions.
- References to 'Woodland Carbon Units' in any project documentation are clearly related to the tCO₂e to be or already sequestered.

3.2 Carbon baseline

Requirement

Projects shall describe the original condition of the project site including details of the vegetation cover, soil type and their carbon content.

Project managers shall estimate the baseline, or changes in the carbon stock at the site for the duration of the project in the absence of the project activities (i.e. business as usual).

Where there is significant sequestration, the carbon baseline shall be accounted for in 'net carbon sequestration' (3.5). Otherwise, the carbon baseline is assumed to be '0, no change over time'.

Guidance

Calculations shall be undertaken in tCO₂e to ensure transparency in measurement and recording.

Guidance

A **carbon baseline** is the reference projection from which the impact of the project can be measured. It is based on a continuation of the current land use in the absence of the project.

Changes to baseline are significant if they are \geq 5% of the project carbon sequestration over the duration of the project.

Means of verification

For site description:

- Appropriate maps, photographs or remotely sensed images to indicate previous land cover.
- Results of field survey for vegetation or soil type.
- > Ecological Site Classification for soil type.

For baseline calculations:

- Carbon baseline calculations in Project Design Document.
- > More detailed calculations of carbon baseline.

3.3 Carbon leakage

Requirement

Confirmation shall be given whether the land manager intends to change or intensify the use of land elsewhere on the holding as a consequence of the woodland creation.

If leakage (landuse change / intensification) outside the project boundary but within the UK is proposed, then projects shall carry out an assessment to determine whether this will result in GHG emissions.

If significant GHG emissions occur they shall be quantified for the duration of the project and accounted for in 'net carbon sequestration' (3.5). Otherwise leakage is assumed to be '0, no change over time'.

Means of verification

- Statement in Project Design Document of intention by the owner/applicant to replace the previous land use or activity elsewhere.
- Leakage assessment in Project Design Document.
- Mapping or field observation of current land uses and the likelihood of displacement of activities.
- > Further calculations of leakage.

3.4 **Project carbon sequestration**

Requirement

Where land is cleared of trees or other vegetation in preparation for the project start date, the lost carbon stock shall be calculated and subtracted from the project carbon sequestration at year 1.

Predictions of the changes in relevant carbon pools for the duration of the project shall be made using the Carbon Lookup Tables.

Carbon sequestration in woodland biomass shall be restricted to the longterm average carbon stock that is projected to accumulate on the site.

A proportion of the projected carbon sequestration of a project shall be allocated to the Woodland Carbon Code buffer (See 2.4).

Means of verification

- Project carbon predictions in Project Design Document.
- Additional evidence: More detailed calculations.

Carbon pools included:

- Tree above and below ground biomass
- Litter and deadwood
- Non-tree above and below ground biomass
- Soil

Further online guidance >

Guidance

Leakage is GHG emissions outside the project boundary as a result of the project (e.g. displacement of agricultural activities might result in deforestation or intensification of use of non-wooded land elsewhere).

Leakage is significant if it results in GHG emissions of magnitude \geq 5% of the project carbon sequestration over the duration of the project

Carbon pools included:

- Tree above and below ground biomass
- Litter and deadwood
- Non-tree above and below ground biomass
- Soil
- GHG emissions to manage the land which has changed use

Further online guidance >

Guidance

Carbon pools included:

- Tree above and below ground biomass
- Litter and deadwood
- Non-tree above and below ground biomass (at project outset)
- Soil
- GHG emissions from woodland
 management

3.5 Net carbon sequestration

Requirement

Net carbon sequestration of a project shall be calculated as project carbon (3.4) adjusted for leakage (3.3) minus baseline (3.2).

Means of verification

- Net Sequestration in Project Design Document.
- > Additional evidence: More detailed calculations.

Guidance

Documentation should show the predicted net carbon sequestration at 5-yearly intervals for the duration of the project.

4 Environmental quality

Principle

Projects need to be of high **environmental quality**, taking into account the wider impacts on ecosystems to ensure that no harm is done by the project and, whenever possible, that wider benefits are created.

Requirement

The project design shall incorporate the environmental aspects of sustainable forest management set out in the UK Forestry Standard and these standards shall be maintained throughout the duration of the project (See 2.3 and 2.6).

Means of verification

- Environmental Quality statements in Project Design Document.
- Environmental Impact Assessment/Environmental Statement or confirmation that EIA is not required.
- > Other relevant documentation.

Guidance

All projects should be able to show that any environmental impacts on the land area concerned are likely to be positive.

Where required, the content of an Environmental Statement and the requirements of the Environmental Impact Assessment process will usually cover all issues associated with environmental integrity.

See the UK Forestry Standard and supporting Guidelines for Climate Change, Soil, Water, Biodiversity, Landscape and Historic Environment: www.forestry.gov.uk/ukfs

5 Social responsibility

Principle

The project shall be socially responsible and where possible offer benefits to local communities and other interested forest users or stakeholders. Stakeholders (local communities and others) shall be consulted and engaged in plans to create and manage new woodland.

Requirement

The project shall provide an opportunity for, and take account of, inputs from stakeholders and feedback from local communities during both the project design phase and over the life-span of the project.

The project design shall incorporate the social aspects of sustainable forest management set out in the UK Forestry Standard and these standards shall be maintained throughout the lifetime of the project (See 2.3 and 2.6).

Means of verification

- Social Responsibility statements in Project Design Document.
- Consultation details in Environmental Impact Assessment or Environmental Statement.
- Grant application which confirms the level and outcome of consultation.
- Other documentation which provides evidence of the approach taken to achieve meaningful stakeholder consultation, along with a summary of feedback and the actions taken.

Guidance

See the UK Forestry Standard and supporting Guidelines for Forests and People www.forestry.gov.uk/ukfs

'A toolbox for public engagement in forest and woodland planning' assists forest and woodland managers when planning for public involvement, and when considering which tools they could use to include people in forest or woodland planning www.forestry.gov.uk/toolbox

Where an EIA has been required, the regulatory process should usually provide the appropriate documentary evidence for stakeholder consultation and engagement.

Glossary

Additionality – A project is 'additional' if it, and the activities supported by it, could not have happened without private carbon finance.

Barrier – Any obstacle to reaching a goal that can be overcome by a project or measure.

Baseline – The projected changes to carbon on the site if the project weren't to go ahead (the 'business as usual' scenario). This is a reference projection to which the carbon benefits of project activities can be compared over the project lifetime.

Buffer – A carbon pool of 'unclaimed carbon' to cover either uncertainty in carbon measurement or unavoidable potential losses which may occur from the project over time, thus ensuring the permanence of carbon sequestration.

Carbon pool – A system that can store and/or accumulate carbon, e.g. above-ground biomass, leaf/needle litter, dead wood and soil organic carbon.

Carbon reporting involves a carbon owner or organisation formally reporting carbon sequestration in accordance with Defra's 'Guidance on how to measure and report your greenhouse gas emissions'. This can only be done once, after the carbon is sequestered, and implies that the tCO_2e reported has been 'retired' (i.e. it cannot be reported again). *See* **Carbon statement**.

Carbon sequestration – Direct removal of carbon dioxide from the atmosphere through land-use change, afforestation, reforestation and/or increases in soil carbon.

Carbon statement – a statement of what a project will sequester or has sequestered to date. It can be restated by more than one party with an interest in a project. See Carbon reporting.

Carbon dioxide (CO₂) – A naturally occurring gas and by-product of burning fossil fuels or biomass, land-use changes and industrial processes. It is the principal anthropogenic (caused by human activity) greenhouse gas that affects the Earth's climate. **Carbon offsetting** – A way of compensating for greenhouse gas emissions by making an equivalent carbon dioxide saving elsewhere. This involves calculating emissions and then purchasing Kyoto compliant 'credits' from emission-reduction projects elsewhere. Kyoto compliant woodland creation can currently only occur outside the UK.

Carbon sink – A carbon pool that is expanding, e.g. a growing forest.

Certification – Registration and assessment of a project against the criteria of the Code by an independent body accredited by UK Accreditation Service.

Climate change – Change or changes in the climate which can be directly or indirectly attributed to human activity (UNFCCC Article 1).

Compensatory planting – New woodland created to compensate for woodland lost elsewhere which provides at least the equivalent woodland-related net public benefit embodied in the woodland which was removed (e.g. for development (windfarms or in urban areas) or where woodland is removed to restore open habitats).

Deforestation – Permanent or long-term removal of woodland; the direct, human-induced conversion of forested land to another land use, or the long-term reduction of the tree canopy cover below the minimum 20% threshold.

Double-counting – Double-counting occurs when the same tonne of carbon dioxide is claimed by two separate entities, or when the same tonne of carbon dioxide is sold more than once.

Environmental Impact Assessment (EIA) – These regulations apply to forestry related projects. If the Forestry Commission/Forest Service considers that project proposals may have a significant effect on the environment then the proposer must obtain Forestry Commission/Forestry Service consent for the work and submit an Environmental Statement as part of the application for consent.

Forest – See 'Woodland'.

Greenhouse gases (GHGs) – Greenhouse gases. The gases which are causing the warming of the Earth's atmosphere that is leading to climate change. The Kyoto Protocol deals with 6 of these: carbon dioxide, hydrofluorocarbons, methane, nitrous oxide, perfluorocarbons and sulphur-hexafluoride. These contribute to the 'greenhouse effect'.

Group Scheme – A group of projects that work together to gain certification. These projects will be coordinated and overseen by a group scheme manager. The group scheme manager is responsible for ensuring that all projects within the group conform to the Code.

Kyoto Protocol – the Kyoto Protocol is an international agreement linked to the UKFCCC. The major feature of the Kyoto Protocol is that it set binding targets for 37 industrialised countries and the EC for reducing GHG emissions in the first accounting period of the Protocol (2008 and 2012). In 2012 the Durban Agreement has set accounting rules for the second accounting period (2013–2020). www.unfccc.int

Leakage – is GHG emissions outside the project boundary as a result of the project (e.g. displacement of agricultural activities might result in deforestation or intensification of use of non-wooded land elsewhere).

Long-term average carbon stock – The mean carbon stock over the long-term in a woodland, averaged over several whole rotations, if clearfelling. For projects where there is no clearfelling the long-term average is assumed to be no less than the carbon predicted to be sequestered by year 100, for a given scenario. For sites where clearfelling is proposed, then the long-term average is calculated over several whole rotations of a given length, where the carbon stock onsite varies from zero at the start of each rotation to a maximum just prior to clearfelling.

Mitigation – Implementing activities or policies to reduce greenhouse gas emissions and/or enhance carbon sinks.

Organic Soil – Soil which contains more than 50cm deep organic (or peat) surface horizon overlaying the mineral layer or rock.

Permanence – The issue of ensuring that removal of carbon dioxide from the atmosphere is permanent, and not reversed at a future point in time. Woodland projects carry a risk of irreversibility and as such safeguards must be in place to minimise that risk and to guarantee replacement or compensatory woodland should a reversal occur.

Project – individual woodland creation project under the same ownership and management. A project could encompass more than one site.

Project Design Document (PDD) – A document created by a project manager to describe how the project meets the requirements of the Code.

Project Duration –The time over which project activities are to be implemented, monitored and carbon sequestration claims is to be claimed. Projects can be up to 100 years in duration.

Project Start Date - The date when tree planting begins.

The Register of UK Woodland Carbon Projects – the official record of the location of projects, the predicted and actual carbon sequestration as well as the owners of that carbon.

Validation – The initial evaluation of a project against the standards of the Woodland Carbon Code, undertaken by a certification body accredited by the UK Accreditation Service.

Verification – The ongoing evaluation of a project against the standards of the Woodland Carbon Code, undertaken by a certification body accredited by the UK Accreditation Service. Verification shall first take place within 5 years of validation and thereafter at periods of 10 years or less. It will assess the carbon sequestration that has actually occurred as well as continuing management to the UK Forestry Standard.

Woodland – Land under stands of trees with a canopy cover of at least 20% (25% in Northern Ireland), or having the potential to achieve this. This definition includes integral open space and felled areas that are awaiting restocking (replanting). (This definition is also applicable to 'forest').

Woodland creation – The direct, human-induced conversion to woodland of land that has not previously been forested according to historical records. The Code sets a threshold of a continuous absence of woodland over the previous 25 years.

www.forestry.gov.uk/carboncode