

RISK BASED REGIONAL ASSESSMENT: A CHECKLIST APPROACH

Version 2

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1. Introduction

The Risk-Based Regional Assessment: a Checklist Approach helps buyers and suppliers of woody biomass to provide Biomass Category B evidence for compliance with the woody biomass land criteria (as set out in the RO, RHI and CfD contracts), without the use of certification, using a risk-based regional approach. It also serves as a guide for auditors and verifiers in assessing whether generators, participants and suppliers have complied with these criteria.

Second Edition

- 1.1. In the first edition of the Woodfuel Guidance it was stated that generators and participants must comply with the Timber Standard's sustainability principles. These principles have now been incorporated directly into the Renewables Obligation Order 2015 and Renewable Heat Incentive Scheme Regulations 2011 (as amended), and will be incorporated into the contracts of the Contract for Difference and Investment Contracts. Generators and participants must now comply with this language, which differs slightly from the Timber Standard, but is intended to have practically the same application.
- 1.2. This document provides guidance on how to comply with the woody biomass land criteria for the Renewables Obligation (RO), the Renewable Heat Incentive (RHI) and Contracts for Difference (CfD). It is important for generators/participants, their suppliers and auditors to understand that their obligations are now set out in the legislation or CfD contract rather than in the Timber Standard.
- 1.3. This version of the *Risk Based Regional Assessment: A Checklist Approach* contains some re-referencing and some minor changes to the terminology to account for this change, compared to the previous version. To improve the clarity of the guidance some minor changes have been made to the ordering and phrasing but the intention was to avoid substantial changes to the recommended sustainability practices set out in the first Risk Based Regional Assessment: A Checklist Approach.
- 1.4. Throughout this document 'woody biomass land criteria' is used as shorthand to refer to the requirements set out in the RO, RHI (woody biomass is referred to as 'solid biomass' in the RHI Regulations) and in the CfD, except where stated. The 'Timber Standard Category A and B evidence' is now to be referred to as 'Biomass Category A and B evidence', to distinguish it from the Category A and B evidence used by the Timber Procurement Policy, which have slightly differing requirements.
- 1.5. The onus remains on generators and participants to ensure that they are aware of, and are complying with, relevant government legislation (or contracts). This guidance is not intended to provide comprehensive legal advice on how the orders, regulations,

contracts or EU regulations should be interpreted. Where necessary, generators and participants should seek their own technical or legal support.

The risk-based regional approach

- 1.6. Generators, installations and suppliers of energy from wood or wood derived biomass under the Renewables Obligation (RO), Renewable Heat Incentive (RHI) or Contracts for Difference (CfD) must comply with the **woody biomass land criteria**, as defined in the RO Order, RHI Regulations and CfD contracts, as applicable.
- 1.7. As noted above, the sustainability principles of the UK's Timber Standard for Heat and Electricity¹ have been incorporated into the woody biomass land criteria of the relevant legislation and contracts. The Timber Standard was developed with UK stakeholders and is based on the UK Timber Procurement Policy's (UK-TPP) Framework for Evaluating Category B Evidence² for legality and sustainability in the forest.
- 1.8. Compliance with these criteria can be shown through either Biomass Category A evidence or Biomass Category B bespoke evidence. Biomass Category A evidence can be provided by using woody biomass that is certified by an approved certification scheme. Biomass Category B is all forms of credible evidence other than approved certification schemes that indicate compliance with the woody biomass land criteria.
- 1.9. This document provides a framework for how Biomass Category B evidence, using a risk based regional approach, may comply with the woody biomass land criteria. The risk based regional approach requires that credible evidence showing low-risk of non-compliance with the woody biomass land criteria can be provided on a regional level.
- 1.10. The Checklist in section 2 of this document offers guidance to generators/participants and their biomass suppliers on how to provide Biomass Category B evidence and how to apply the risk-based regional approach without the use of certification. Generators and suppliers may choose not to use this Checklist but instead use their own framework. This is acceptable so long as they can credibly demonstrate low risk of non-compliance against all woody biomass land criteria on a regional basis.
- 1.11. This risk-based regional approach is based on the Forest Stewardship Council (FSC) and Programme for the Endorsement of Forest Certification (PEFC) Controlled Wood and Controlled Sources regional risk assessment and draws from the work of other voluntary schemes.
- 1.12. The risk-based regional approach requires generators/participants and biomass suppliers to provide sufficient credible evidence to demonstrate that woody biomass sourced from a defined region has a low risk of non-compliance with all woody biomass land criteria (see section 1.19 for a definition of region). If generators/participants and their biomass suppliers can trace their material back to an area smaller than a region, for example a specific Forest Management Unit (FMU), they can provide evidence for low-risk of non-compliance with the criteria for this smaller area rather than on a regional basis.

¹ https://www.gov.uk/government/publications/timber-standard-for-heat-electricity

² https://www.gov.uk/government/publications/framework-for-evaluating-category-b-evidence

- 1.13. Credible evidence could for example be relevant legislation and an assessment of its proper implementation and enforcement in this defined region.
- 1.14. If credible evidence of low-risk cannot be provided for this defined region and the region has to be considered at a higher risk of non-compliance, generators/participants and biomass suppliers would need to implement risk mitigation activities. This might include implementing sourcing only from approved contractors; undertaking periodic forest/site visits and audits; using vertically integrated forest management operations; reducing the area from which material is harvested from to demonstrate low risk of non-compliance on a local or even forest management unit level. Alternatively, sourcing practices could be changed to avoid sourcing from an area where low risk of non-compliance cannot be shown. It may be that certifying sustainability under an approved scheme may be a better way to assure sustainability.
- 1.15. Third party verifiers/auditors, working in accordance with ISAE 3000 (or an equivalent standard), will assess evidence collected by generators (RO, CfD) and participants (RHI) the annual sustainability audit applies to installations equal or larger than one megawatt. For biomass suppliers on the Biomass Suppliers List (BSL), it is the List Manager who will determine whether evidence provided is sufficient and credible to show low-risk of non-compliance or whether site visits are required.
- 1.16. During the course of the year, generators and participants must collect sufficient and credible evidence to demonstrate they comply with the RO, RHI and CfD contracts. At the end of the year, third party verifiers/auditors working in accordance with ISAE 3000 (or an equivalent standard) will assess evidence provided by generators under the RO, CfD and RHI participants reporting directly to Ofgem. Auditors/Verifiers will determine whether this evidence is either 'adequate' or 'not adequate'. For biomass suppliers on the Biomass Suppliers List (BSL), it is the List Manager who will determine whether evidence provided is 'adequate' or 'not adequate'. It is for the auditor/verifier or for the List Manager to determine how they conduct their audit, whether further information is needed or whether site visits are required. OFGEM also have the power to request sustainability evidence.
- 1.17. The checklist includes the mandatory woody biomass land criteria specified in the RO Order, RHI Regulations and CfD contracts, as well as an optional UK-TPP Category B requirement for supply chain management that requires traceability of woody biomass back to a Forest Management Unit (FMU). The RO, RHI and CfD contracts do not require woody biomass fuel to be traced back to a specific FMU but to a supply base only (see "What is a Supply Base"). However, if woody biomass is being supplied to a central government department, executive agency, executive non-departmental public body, or non-ministerial government department in England, then it does have to comply with the UK-TPP Category A or Category B requirements.
- 1.18. Timber traceable to a forest with a valid felling license and a fully implemented Forest Management Plan in line with the UK Forestry Standard (UKFS)

 Requirements and Guidelines meets the woody biomass land criteria. In this instance a risk based regional approach (or checklist) would not be required.

What is a region?

1.19. A region can be defined as the largest area in which reliable and independent information is available at which conditions are sufficiently homogenous to

evaluate the risk of non-compliance. In a single 'region' we would expect that the following characteristics should be the same:

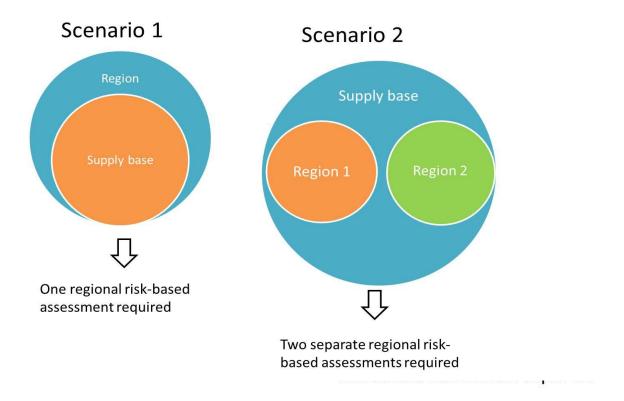
- legislation covering land ownership, use and harvesting rights
- legislation covering biodiversity, water, air and soil protection
- legislation covering basic labour rights and health and safety of forest workers
- legislation covering waste handling and disease control
- legislation covering tree felling licensing and replanting/regeneration requirements.
- 1.20. Within a region the risk of non-compliance with each woody biomass land criteria will need to be evaluated. For RO and CfD this evaluation is the responsibility of the generator and for the RHI of a supplier on the Biomass Suppliers List, unless they are self-reporting. Only woody biomass determined to be low risk at the regional level for all criteria shall be supplied as 'legal and sustainable'. All virgin wood, or feedstocks made from wood, must comply with EU Timber Regulation No 995/2010 (EUTR) requirements³.

What is a supply base?

- 1.21. A supply base is the area from which the woody biomass feedstock originates. The supply base will vary in location and size depending on the characteristics of the woody biomass used. The supply base needs to be clearly defined, for example on the basis of administrative boundaries. Where there is uncertainty about the location of trees from which the woody biomass was sourced from, for example if co-products from sawmills are included in the biomass, then the supply base must be sufficiently expanded to ensure that it covers the area from which the co-products originated i.e. the location of the tree stumps from which the co-product originated. The supply base might also be expanded to ensure that it incorporates not just current inputs but also anticipated future or ad hoc inputs.
- 1.22. All woody biomass used must be **traceable back to a supply base** but the RO, RHI and CfD do not require biomass to be traceable back to a specific forest management unit.
- 1.23. A supply base can be smaller (see scenario 1 in below diagram) or bigger (see scenario 2 in below diagram) than a region selected for evaluation. If it comprises several regions where biomass is sourced from areas with different legislation, generators/participants and biomass suppliers have to complete a risk-based regional assessment for each region contained in the supply base.

³ Legally Harvested is as defined in Article 2 of the EU Timber Regulation No 995/2010 (EUTR)

Figure 1 Supply base and region scenarios



1.24. Once the supply base is defined the risk of non-compliance with the woody biomass land criteria across the entire supply base must be assessed.

Examples:

- A small chipping operation in SW England sources round timber from local forest owners with which it has long term supply agreements. The chipping operation defines its supply base as the counties of Devon and Cornwall as this covers the origin of all the round timber that the operation will use in the foreseeable future. The operation defines England as a region and will assess the risk of non-compliance with woody biomass land criteria for England as forestry-related legislation is homogenous across the whole of England.
- A large woodfuel supplier in Northern England sources a variety of inputs including co-products from sawmilling and round timber from a wide range of suppliers within an approximate 150 mile radius. The supplier defines its supply base as the mainland of Great Britain as none of the material it uses, including the harvesting location of the logs feeding the sawmill, is of imported origin. The supplier also defines Great Britain as a region when assessing the risk of non-compliance with woody biomass land criteria.
- A generator sources material which originates from tree stumps located in Latvia,
 Portugal and the US state of Georgia and defines its supply base as "Latvia, Portugal

and the US state of Georgia". The generator will have to carry out separate risk assessments for these supply bases given that they will be composed of a number of different regions with different regulatory requirements (i.e. Latvia or specific regions of Latvia, Portugal or specific regions of Portugal etc.).

What evidence can I use to demonstrate compliance?

- 1.25. The evidence used to demonstrate low risk of non-compliance with the woody biomass land criteria on a regional basis can vary greatly but must include evaluation against all criteria.
- 1.26. Examples of credible evidence may include:
 - national legislation and credible evidence of implementation and enforcement of this legislation such as a low Corruption Perception Index, or an absence of credible NGO or third party reports showing lack of implementation or enforcement
 - records of best management practices
 - Forest Department statistics and reports, officially approved forest management plans and felling licenses where there is credible evidence of their validity
 - control systems implemented by companies in the supply chain, such as approved supplier lists or supplier audits
 - vertical integration of forest management operations with woodfuel processing operations where processors retain direct control over forest management activities.
- 1.27. In some regions, woody biomass land criteria related to safeguarding the basic labour rights and health and safety of forest workers such as "the effective abolition of child labour" can be effectively demonstrated at the national level by reference to existing legislation and credible evidence of effective implementation of this legislation. In other regions the implementation of legislation may not be effective and other evidence would need to be provided, such as biomass suppliers only sourcing from approved contractors and undertaking periodic audits of those contractors and their employment practices and records.
- 1.28. Where there is a break in the chain of custody for Biomass Category A evidence (i.e. where a legal owner in the supply chain is not certified) and consequently material cannot carry a Biomass Category A claim, Biomass Category B evidence must be provided. A risk-based regional approach may be used to demonstrate evidence of compliance with the woody biomass land criteria. The upstream certified parts of the supply chain (supported by Biomass Category A evidence) may be used as part of the Biomass Category B evidence.

Example:

A biomass user receives chips from a chipping operation without a certification claim.
 The biomass user has credible evidence that the chipping operation takes in logs which are certified under the FSC scheme. The biomass user may use this evidence as part of its evidence that the chips are from a 'legal and sustainable' source but

would also need to credibly demonstrate how any uncertified logs received by the chipping operation, and which may be contained in the chips received, meet the woody biomass land criteria (or how uncertified logs are excluded from the chips received).

1.29. Assessment for partial compliance: Ofgem has benchmarked some voluntary third party-certification schemes against their compliance with the woody biomass land criteria as defined in the RO. Ofgem has published the list of schemes benchmarked with details of the scheme and the requirements that the scheme does comply with. A generator/participant or supplier sourcing woodfuel certified material against these partially compliant schemes will only have to provide sufficient and credible evidence for low-risk of non-compliance with the woody biomass land criteria for the remaining requirements.

How to implement a risk-based regional approach in practice

- 1.30. There are three fundamental steps in completing the risk-based regional approach and in demonstrating that woodfuel meets the woody biomass land criteria:
 - 1. Defining the supply base: It must include all the areas from which the biomass feedstock originates.
 - 2. Defining the region(s): Conditions must be sufficiently homogenous to evaluate the risk of non-compliance with the woody biomass land criteria.
 - 3. Determining the risk that the biomass feedstock does not comply with these criteria across this entire supply base and region(s).
- 1.31. If the supply base is composed of several regions (e.g. see third example in section 1.25), the risk of non-compliance with these criteria must be made separately for each region contained in the supply base.
- 1.32. Credible and sufficient evidence must be provided to demonstrate low risk of non-compliance for all woody biomass land criteria for the woodfuel to be considered 'legal and sustainable'. At least 70% of the mix of consignments must be 'legal and sustainable' in line with the 70/30 threshold (see Woodfuel Advice Note for further information about the 70/30 threshold).

Example:

• Company X, an electricity generator, refers to biodiversity legislation and its implementation status in country Z to show low risk of non-compliance with sustainability criteria relating to covering protection of soil, water and biodiversity for a specific woodfuel consignment. However, several NGOs and scientists have separately published papers and reports recently showing a credible lack of implementation and enforcement of this biodiversity legislation on a national scale in country Z. Company X's provision of evidence and conclusion of low-risk will therefore most likely be judged as non-adequate by the third-party verifier/auditor. Following this, Ofgem will need to consider whether the support that has been

- awarded under the relevant scheme is still valid. Company X would need to change sourcing practices or implement mitigation measures.
- 1.33. If there is a risk of non-compliance for some of the woody biomass land criteria across the entire supply base then the biomass user must:
 - redefine the supply base and change sourcing practices to avoid sourcing from a region where there is a risk of non-compliance. An example of this might be exclusion of material from particularly environmentally sensitive areas;
 - implement mitigation measures to reduce the risk of non-compliance with the woody biomass land criteria to low risk;
- 1.34. Mitigation measures will be specific to individual circumstances but may include
 - running vertically integrated operations through a combination of directly managed and contracted forest operations;
 - implementing management systems including internal audit and training activities;
 - using approved supplier lists including screening suppliers against woody biomass land criteria and including these criteria in commercial contracts;
 - requiring suppliers to implement best management practices and monitor and audit them accordingly; provide them with training and support to implement woody biomass land criteria; and/or
 - requiring suppliers to follow a step-wise program towards certification including monitoring of their progress

How do I use the checklist?

- 2.1. The checklist provides a framework for presenting Biomass Category B evidence against each of the woody biomass land criteria for the Renewables Obligation and the Renewable Heat Incentive. The guidance is also relevant for how to comply with the sustainability requirements of the Contracts for Difference. Suppliers are expected to use a thorough risk-based regional approach such as the one presented in the following checklist approach or, alternatively, to use their own framework if they can demonstrate low risk of non-compliance for all woody biomass land criteria.
- 2.2. This guidance suggests types of evidence that could be used to demonstrate low-risk of non-compliance if using a checklist approach for each woody biomass land criteria.
- 2.3. To help to illustrate best practice, chapters 3, 4, 5 and 6 outlines how the checklist approach can be applied to case studies, including two UK case studies, two US case studies, and a case study from a high risk country.
- 2.4. The left hand column of the checklist identifies the source of the requirement. The middle column sets out examples of evidence that might be provided to demonstrate low risk of non-compliance with the requirements. Note that appropriate credible evidence will vary depending on the different contexts and the complexity of supply chains. The guidance column details the intent of the requirement and further explanation as to why and how evidence should be provided.
- 2.5. Generators, RHI participants and suppliers sourcing woody biomass from the same region are likely to share similar risks in relation to compliance with the woody biomass land criteria and may be able to use or reference the same risk assessment. However, they must take into account any variations in the scale and complexity of sourcing activities of different entities and are individually responsible for providing sufficient and credible evidence for compliance with the woody biomass land criteria. Ultimately, third party verifiers/auditors for generators or the BSL List Manager for suppliers will assess if evidence provided is adequate or non-adequate.

The case studies

- 2.6. The remaining chapters apply the checklist approach to the following case studies:
 - Chapter 3: UK electricity supply chain 1: This UK based woody biomass producer supplies material to a UK electricity generator using a variety of raw materials which are 100% sourced from the UK, predominantly mainland GB including Scotland, England and Wales but occasionally with material originating from Northern Ireland. The regional risk assessment for the UK case study is based on the current regulatory framework with reference to effective implementation of this framework.
 - Chapter 4: UK RHI supply chain 2: This small UK based woodchip producer is on the BSL and supplies the majority of his production to a heat boiler installed at a nearby school and hospital in Kent, England. He sources on average 40% of its biomass

from arboricultural residues and 60% of thinnings and co-products from clearfell from local woodlands, all within 20 miles of the producer's facility. He defines his supply base as the county of Kent and the region as England. Similarly to UK case study 1, the regional risk assessment for England is based on the current regulatory framework with reference to effective implementation of this framework.

- Chapter 5: US supply chain 1: Company A is a pellet producer located in region A who supplies a UK Power Station. Its supply base extends for an approximate radius of 70 miles and is only composed of pine, with the majority of it being purchased through two main suppliers. In both US case studies, the regional risk assessment is based on a combination of the regulatory framework with reference to its implementation as well as on management systems implemented by the biomass producers themselves, such as monitoring performance of their suppliers.
- Chapter 5: US supply chain 2: Company B is a pellet manufacturer situated in region B who supplies a UK power station. Its supply base extends for an approximate radius of 75 miles with the majority of it being sourced from forests which are predominantly made up of loblolly-shortleaf and gum-oak-cypress species.
 Procurement is focussed on hardwood species that are purchased through a range of different suppliers.
- Chapter 6: Supply chain in a high risk country: This woody biomass supplier sources from State X in country Y that is characterised by a high corruption perception index and poor implementation and enforcement of legislation and regulation as highlighted in numerous scientific papers and NGO reports. Consequently, the supplier cannot conclude that there is low risk of non-compliance with the woody biomass land criteria in his supply base and takes a more proactive role to ensure compliance. The supplier operates a vertically integrated operation and implements comprehensive management systems to mitigate the risk.
- 2.7. Note that the language used in the following tables is for guidance purposes. Suppliers must comply with the wording in the relevant legislation (or with the CfD contract), not with the wording in the table. The table details where to find the relevant wording in the legislation. Note that these case studies do **not represent a definitive statement of acceptable evidence nor can they be considered minimum requirements**. Contexts and conditions change frequently and specific local conditions may need to be taken into account when providing evidence. Ultimately, it will be up to third party verifiers/auditors for generators or the List Manager for suppliers to assess whether evidence provided is adequate or non-adequate.

- 2.8. The checklist has the following structure:
 - i. Credibility requirements from the woody biomass land criteria
 - ii. Sustainability requirements from the woody biomass land criteria

- **iii. Defining the Supply Base** this is an important part of the risk-based regional approach
- **iv. Supply Chain Management Applicable at the Forest Level.** This is a requirement only for those that must comply with the UK-TPP Category B. It is included for the benefit of those supplying UK government with biomass or for those intending to provide chain of custody back to the forest level.

i) Credibility requirements

RO and RHI Requirements (and CfD contracts ⁴)	Examples of possible Evidence	Guidance
ROO2015 ⁵ : Schedule 3, para 6(1)(a), 6(2)(a)-(b), 6(3)(a)-(c) RHI 2011 ⁶ : Schedule 2B, part 2, para 5(1)- (3) Woody biomass is obtained from a sustainable source if it was grown within an area of forest or other land which is managed in a way that is consistent with the Forest Europe Sustainable Forest Management Criteria or a set of international principles for the sustainable management of land. The set of international principles must have been adopted following a process ("the principles setting process") which sought to obtain a balanced representation of views of interest groupings, ensure that no single interest group could dominate the principle setting process and ensure that no decision on the contents of the principles could be made in the absence of agreement from a majority within each interest grouping involved in the principles can be changed by a process ("the change process") which seeks to ensure that no single interest grouping can dominate the process and no	 proactive engagement with stakeholders. appropriate responsiveness to stakeholder comments. transparency in results and evidence gathering approach. evidence is objective and performance based. maintenance of records of stakeholder comments and complaints. Examples of widely accepted sets of international principles include: the Forest Europe Sustainable Forest 	This relates to the <i>definition of</i> sustainability that is being used – this definition informs how the sustainability practices have been demonstrated and assessed in this area. This definition must be consistent with a widely accepted set of international principles and criteria.

⁴ Equivalent wording also appears in the CfD contracts ⁵ "ROO2015" is used a shorthand in these tables for the Renewables Obligation Order 2015 (England and Wales), the Renewables Obligation (Scotland) Amendment Order 2015 and the Renewables Obligation (Amendment) Order (NI) 2016.

⁶ "RHI 2011" is used as shorthand in these tables for Renewable Heat Incentive Regulations 2011 (as amended)

decision on changes to the principles can be made in the absence of agreement from a majority within each interest grouping involved in the change process.

Each of the following is an interest grouping in relation to the forest (or other location where the wood was grown). Persons with interests which are predominantly:

- (a) economic in nature;
- (b) environmental in nature;
- (c) social in nature.

ROO2015: Schedule 3, 6(4)(h)

RHI 2011: Schedule 2B, part 2, 5(4)(h)

There is regular assessment of the extent to which those responsible for the management of the area have met the requirements set out in paragraphs (a) to (g) of the respective parts of the legislation.

Management criteria (the Forestry Commission's guidance⁷ is compliant with this),

the Montreal Process
 Criteria (e.g. the USDA's
 Stewardship Handbook for
 Family Forest Owners'⁸
 guidance is compliant with
 this);

The approved schemes FSC and PEFC have been based on internationally agreed principles. The approved scheme SBP is based on Forest Europe Sustainable Forest Management

⁷ http://www.forestry.gov.uk/theukforestrystandard

⁸ http://www.stateforesters.org/sites/default/files/publication-documents/NASF-Stewardship-Handbook-print.pdf. The US Department of Agriculture Forest Service publish the criteria and indicators they use to define 'sustainable forests'. http://www.fs.fed.us/research/sustain/criteria-indicators/.

ii) Sustainability requirements

RO and RHI Requirements (and CfD contracts ⁹)	Examples of possible Evidence	Guidance
ROO2015: Schedule 3, 6(4)(a)(i) RHI 2011: Schedule 2B, part 2, 5(4)(a)(i) Harm to ecosystems is minimised, in particular by assessing the impacts of the extraction of wood from the area and adopting plans to minimise any negative impacts	Appropriate assessment of impacts, and planning, implementation and monitoring to minimise them. • regional Best Management Practices • supply contracts • assessment of potential impacts at operational level • assessment of measures to minimise impacts • monitoring results • publicly available information on protecting the values identified • level of enforcement • regional, publicly available data from a credible third party • the existence of a strong legal framework in the region.	Potential impacts of biomass harvesting on ecosystems and biodiversity should be identified, with mitigation measures implemented in the field as necessary. Impacts should be monitored and there should be a mechanism to feed monitoring results back into operational practice. Impacts include those originating in the area of operation but impacting outside the area of operation, such as downstream. Suppliers may require suppliers and forest owners to adopt specific Best Management Practices and to be certified for certain tasks. These should be specified in purchasing or procurement policies.
ROO2015: Schedule 3, 6(4)(a)(ii)	regional Best Management	Potential impacts of biomass harvesting on soil, water and biodiversity should be identified, with mitigation measures

⁹ Equivalent wording also appears in the CfD contracts

RO and RHI Requirements (and CfD contracts ⁹)	Examples of possible Evidence	Guidance
RHI 2011: Schedule 2B, part 2, 5(4)(a)(ii) Harm to ecosystems is minimised, in particular by protecting soil, water and biodiversity.	 Practices supply contracts records of Supplier's field inspections assessment at an operational level of measures designed to minimise impacts on the values identified monitoring records interviews with staff publicly available information on the protection of soil, water and biodiversity level of enforcement regional, publicly available data from a credible third party the existence of a strong legal framework in the region. 	implemented in the field as necessary. Impacts should be monitored and there should be a mechanism to feed monitoring results back into operational practice. Suppliers may require suppliers and forest owners to adopt specific Best Management Practices and to be certified for certain tasks. These should be specified in purchasing or procurement policies.
ROO2015: Schedule 3, 6(4)(a)(iii) and (iv) RHI 2011: Schedule 2B, part 2, 5(4)(a)(iii) and (iv) Harm to ecosystems is minimised, in particular by controlling the use of chemicals and ensuring that	 existing legislation level of enforcement regional Best Management Practices supply contracts records of Supplier's field 	The requirement relates to current and ongoing use rather than historic use. If chemicals are used, proper equipment and training should be provided to minimise health and environmental risks. Chemical use should be justified, and there should be evidence that non-chemical alternatives have been considered. There should be evidence that the options for implementing IPM

RO and RHI Requirements	Examples of possible Evidence	Guidance
chemicals are used in an appropriate way and wherever possible, using integrated pest management Integrated pest management is defined in Article 3(6) of Directive 2009/128/EC.	 inspections operational assessment of measures designed to minimise impacts on the values identified monitoring records interviews with staff regional, publicly available data from a credible third party the existence of a strong legal 	have been considered and where appropriate, IPM is being implemented. Suppliers may require suppliers and forest owners to adopt specific Best Management Practices and to be certified for certain tasks. These should be specified in purchasing or procurement policies.
ROO2015: Schedule 3, 6(4)(a)(v) RHI 2011: Schedule 2B, part 2, 5(4)(a)(v) Harm to ecosystems is minimised, in particular by disposing of waste in a manner that minimises any negative impacts	 framework in the region. regional Best Management Practices supply contracts operational Assessment of potential impacts and of measures to minimise impact monitoring results. 	Waste is defined as any substance or object that the holder discards or intends to discard, or is required to discard. Ref: 2008 Waste Framework Directive (Directive 2008/98/EC)
ROO2015: Schedule 3, 6(4)(b)(i) RHI 2011: Schedule 2B, part 2, 5(4)(b)(i) The productivity of the area is maintained, in particular by adopting plans to avoid significant negative impacts on productivity	Harvest levels are justified by inventory and growth data. • harvesting records, inventory and growth data and yield calculations demonstrate that biomass harvesting rates are not having significant negative impacts on forest productivity	Evaluation should cover the entire Supply Base and, where appropriate, should be based on regional markers, such as growth/drain, inventory, mortality, and age class distribution.

RO and RHI Requirements (and CfD contracts ⁹)	Examples of possible Evidence	Guidance
	and long-term economic viabilitydocumentation of Operational Practice	
ROO2015: Schedule 3, 6(4)(c) RHI 2011: Schedule 2B, part 2, 5(4)(c) Compliance with the productivity requirements is monitored, the results of that monitoring are reviewed and planning updated accordingly	Monitoring records and planning documents providing evidence of adequate management and monitoring	Compliance should be determined by: the existence of a monitoring plan the implementation of a monitoring programme adequate resourcing of monitoring functions feedback of monitoring results into management planning.
ROO2015: Schedule 3, 6(4)(b)(ii) RHI 2011: Schedule 2B, part 2, 5(4)(b)(ii) The productivity of the area is maintained, in particular by adopting procedures for the extraction of wood that minimise the impact on other uses of the area	 existing legislation level of enforcement supply contracts records of Supplier's field inspections monitoring records interviews with staff. 	Forest services, not specifically covered elsewhere in this standard indicate forest health and vitality. These include functions that the forests provide for people and/or the environment, such as: a) erosion control b) flood control c) access for recreation, where possible. There should be ongoing maintenance and improvement for other forest services provided, such as access for recreation.
ROO2015: Schedule 3, 6(4)(b)(iii) RHI 2011: Schedule 2B, part 2, 5(4)(b)(iii) The productivity of the area is maintained, in particular by providing	 existing legislation level of enforcement supply contracts records of Supplier's field inspections 	Adequate training provision should include assessment of training needs, and the delivery of training programmes.

RO and RHI Requirements (and CfD contracts ⁹)	Examples of possible Evidence	Guidance
for all of the contractors and workers who are working in the area to be adequately trained in relation to the maintenance of productivity	 monitoring records interviews with staff training plans, training records, and records of qualifications. 	
ROO2015: Schedule 3, 6(4)(b)(iv) RHI 2011: Schedule 2B, part 2, 5(4)(b)(iv) The productivity of the area is maintained, in particular by maintaining an adequate inventory of the trees in the area (including data on the growth of the trees and on the extraction of wood) so as to ensure that wood is extracted from the area at a rate which does not exceed its long-term capacity to produce wood	 harvesting records, inventory and growth data and yield calculations demonstrate that biomass harvesting rates are not having significant negative impacts on forest productivity and long-term economic viability documentation of Operational Practice. 	Calculations show that biomass harvesting does not exceed the long-term production capacity of the forest, avoids significant negative impacts on forest productivity and ensures long-term economic viability. Harvest levels are justified by inventory and growth data. Evaluation must cover the entire Supply Base and, where appropriate, should be based on regional markers, such as growth/drain, inventory, mortality, and age class distribution.
ROO2015: Schedule 3, 6(4)(d)(i) RHI 2011: Schedule 2B, part 2, 5(4)(d)(i) The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by adopting plans to	 overall evaluation of potential impacts of operations on forest ecosystem health and vitality assessment of potential impacts at operational level and of measures to minimise impacts regional Best Management 	Health and vitality of the forest ecosystem relate to the resilience of the ecosystem to withstand change. Indicators of health and vitality may include the level of disturbance observed, changes in biodiversity, and the presence or absence of keystone 'indicator' species. Relevant ecological functions and values may include: a) forest regeneration and succession

RO and RHI Requirements	Examples of possible Evidence	Guidance
(and CfD contracts ⁹)		
maintain or increase the health and vitality of ecosystems ROO2015: Schedule 3, 6(4)(d)(ii)	Practices supply contracts monitoring results. regional Best Management	b) genetic, species and ecosystem diversity c) natural cycles affecting productivity of the forest ecosystem Appropriate management of such situations will depend upon the
RHI 2011: Schedule 2B, part 2, 5(4)(d)(ii) The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by adopting plans to deal with natural events such as fires, pests and diseases	 Practices supply contracts assessment of potential impacts at operational level and of measures to minimise impacts monitoring results regional, publicly available data from a credible third party the existence of a strong legal framework in the region. 	forest type, management objectives and local best practice and guidance. Fire, for example, may be an appropriate and necessary natural process in some forest types and seasons, and inappropriate in others. Where they are natural and necessary, the characteristics of any fire control interventions will be different to those taking place in forests where fire is not naturally part of their ecology. Pests and diseases also need to be managed appropriately, and this will vary according to management objectives. In conservation areas, for example, it may not always be appropriate to attempt eradication of certain pests and diseases. Where pesticides and other chemicals are used to address pests and diseases, regional and other best management practices must be adhered to. Control systems and procedures should, define appropriate management practice for the particular forest type and region.
ROO2015: Schedule 3, 6(4)(d)(iii) RHI 2011: Schedule 2B, part 2, 5(4)(d)(iii)	mapsrecords of Supplier's field inspections	Where the forest owner or management organisation is not legally able to protect the forest fully, there must be a system for working with appropriate regulatory bodies to identify, report, control and discourage unauthorised activity within the forest.
The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in	monitoring recordsinterviews with staff	Where illegal/ unauthorised activities are detected, appropriate action should be taken.

RO and RHI Requirements (and CfD contracts ⁹)	Examples of possible Evidence	Guidance
particular by taking adequate measures to protect the area from unauthorised activities such as illegal logging, mining and encroachment	publicly available information	Control systems and procedures must firstly stipulate the adequate protection measures for the particular forest type and region, and secondly, verify that these are being implemented.
ROO2015: Schedule 3, 6(4)(e)(i) RHI 2011: Schedule 2B, part 2, 5(4)(e)(i) Biodiversity is maintained, in particular by implementing safeguards to protect rare, threatened and endangered species	 internet research maps interviews regional, publicly available data from a credible third party the existence of a strong legal framework in the region 	Sources of information include: The High Conservation Value Network: http://www.hcvnetwork.org/ Sustainable Forestry Initiative (SFI): Section 6: Guidance to SFI 2015-2019 Standard, January 6. 2014 Forests with Exceptional Conversation Value: http://www.sfiprogram.org/files/pdf/draft-sfi-2015-2019-standard-section-6/ NatureServe: http://www.natureserve.org/ The Global Forestry Risk Register: http://www.globalforestregistry.org/
ROO2015: Schedule 3, 6(4)(e)(ii) RHI 2011: Schedule 2B, part 2, 5(4)(e)(ii) Biodiversity is maintained, in particular by conserving key ecosystems in their natural state	maps, Standard Operating Procedures, Codes of Practice and monitoring records indicate that appropriate safeguards are implemented	Key ecosystems or habitats include areas with statutory designations or high conservation value. Such conservation of set aside areas need to be of sufficient size or suitably connected with other similar areas to ensure their long-term viability. Potential reference sources include: RSB Conservation Impact Assessment Guidelines RSB-GUI-01-007-01.

RO and RHI Requirements (and CfD contracts ⁹)	Examples of possible Evidence	Guidance	
ROO2015: Schedule 3, 6(4)(e)(iii) RHI 2011: Schedule 2B, part 2, 5(4)(e)(iii) Biodiversity is maintained, in particular by protecting features and species of outstanding or exceptional value	 maps guidance provided by Suppliers to suppliers/forest operators, regarding threats to the identified forests and areas of high conservation values, and verification of conformance through field inspections regional Best Management Practices Standard Operating Procedures codes of practice records of Supplier's field inspections monitoring records interviews with staff publicly available information on the protection of the values identified 	The potential impacts of management activities on forests and other areas with high conservation values and biodiversity should be evaluated, and Suppliers should have systems in place to verify that mitigation measures are implemented in the field. There is communication with suppliers/forest operators, and they are provided with records of meetings, talks, workshops, etc. Impacts include those originating in the area of operation but impacting outside the area of operation, such as downstream. Sources of information include: The High Conservation Value Network: http://www.hcvnetwork.org/ Sustainable Forestry Initiative (SFI): Section 6: Guidance to SFI 2015-2019 Standard, January 6. 2014 Forests with Exceptional Conversation Value http://www.sfiprogram.org/files/pdf/draft-sfi-2015-2019-standard-section-6/ NatureServe: http://www.natureserve.org/ The Global Forestry Risk Register: http://www.globalforestregistry.org/	
ROO2015: Schedule 3, 6(4)(f) RHI 2011: Schedule 2B, part 2, 5(4)(f)	existing legislationlevel of enforcementsupply contracts	Appropriate safeguards include the requirement to identify risks, to provide appropriate training courses, and to provide appropriate Personal Protective Equipment (PPE).	

RO and RHI Requirements (and CfD contracts ⁹)	Examples of possible Evidence	Guidance
Those responsible for the management of the area (and any contractors engaged by them) to comply with the local and national laws relating to health and safety and the welfare of workers	 records of Supplier's field inspections monitoring records interviews with staff payroll records Company policies indicating that the requirements are met. 	
ROO2015: Schedule 3, 6(4)(g)(i) RHI 2011: Schedule 2B, part 2, 5(4)(g)(i) Those responsible for the management of the area have regard to legal, customary and traditional rights of tenure and land use	 existing legislation level of enforcement documentation showing legal ownership patterns in the region, level of enforcement, records of disputes over land tenure, etc. In situations where customary rights govern use and access, these rights are clearly identifiable and agreements exist regarding these rights. long term unchallenged use Interviews with indigenous peoples, local communities and other stakeholders, indicate that their rights are being respected. Appropriate mechanisms exist to resolve disputes. 	The requirement includes ILO convention 169, which relates to the rights of indigenous and tribal peoples. Indigenous peoples and local communities should be allowed to control and protect their rights and resources, unless they have chosen to delegate control with free and informed consent. Indigenous peoples and local communities should be fully compensated for appropriation of traditional community knowledge or intellectual property. Appropriate mechanisms should be in place to resolve disputes over tenure claims and use rights. Substantial disputes involving multiple interests will normally prevent this Indicator from being considered Low Risk. Factors affecting the risks of compliance will include the effectiveness of the land tenure system in place in the Supply Base. Where there are, or have been, disputes, evidence should be available that fair compensation has been made to previous owners and occupants, and that this has been accepted with Free, Prior and Informed Consent (FPIC).

RO and RHI Requirements (and CfD contracts ⁹)	Examples of possible Evidence	Guidance
ROO2015: Schedule 3, 6(4)(g)(ii) RHI 2011: Schedule 2B, part 2, 5(4)(g)(ii) Those responsible for the management of the area have regard to mechanisms for resolving grievances and disputes including those relating to tenure and land use rights, forest or land management practices and working conditions	 existing legislation level of enforcement regional Best Management Practices supply contracts records of Supplier's field inspections monitoring records interviews with staff 	Mechanisms for resolving complaints and grievances at the workplace level may be incorporated into existing legislation. Grievances related to tenure and use rights may require additional mechanisms where appropriate. Potential reference sources include: RSB-GUI-01-005-01: Social Impact Assessment Guidelines RSB-GUI-01-012-01: Land Rights Guidelines
ROO2015: Schedule 3, 6(4)(g)(iii) RHI 2011: Schedule 2B, part 2, 5(4)(g)(iii) Those responsible for the management of the area have regard to safeguarding the health and safety and rights of workers	 existing legislation level of enforcement supply contracts records of Supplier's field inspections monitoring records interviews with staff payroll records Company policies indicating that the requirements are met. 	 Appropriate safeguards include the requirement to identify risks, to provide appropriate training courses, and to provide appropriate Personal Protective Equipment (PPE). Basic labour rights include freedom of association and the effective recognition of the right to collective bargaining the elimination of all forms of compulsory or forced labour the effective abolition of child labour the elimination of discrimination in respect of employment and occupation. The Indicator must be met in countries where ILO conventions have not been ratified. The following ILO conventions have not been ratified in all countries. ILO Declaration on Fundamental Principles and Rights at Work

RO and RHI Requirements (and CfD contracts ⁹)	Examples of possible Evidence	Guidance
		(1998) based on the eight ILO Core Labour Conventions
		ILO Convention 98 (Right to Collective Bargaining)
		ILO Convention 87 (Freedom of Association)
		ILO Convention 135 (Workers Representatives Convention.
		'Compulsory labour' is defined as "All work or service that a person has not offered to do voluntarily and is made to do under the threat of punishment or retaliation, or is demanded as a means of repayment of debt".
		See ILO Conventions 29 and 105 (Forced & Bonded Labour).
		Child labour is defined as any work performed by a child younger than the age stipulated below, except as provided for by ILO Recommendation 146.
		Definition of a child: any person less than 15 years of age, unless the minimum age for work or mandatory schooling is stipulated as being higher by local law, in which case the stipulated higher age applies in that locality.
		See ILO Convention 138 & Recommendation 146 (Minimum Age and Recommendation).
		ILO Conventions 100 (Equal remuneration for male and female workers for work of equal value) and 111 (Discrimination)
		Appropriate safeguards include
		the requirement to identify risks,
		to provide appropriate training courses, and
		to provide appropriate Personal Protective Equipment (PPE).

iii) Definition of the Supply Base

RO, CfD and RHI requirements	Examples of possible evidence	Guidance
1.1. Woodfuel meets the woody biomass land criteria if it originates from an independently verifiable legal and sustainable source and appropriate documentation is provided to prove it. The Woodfuel Guidance advises on definition of Supply Base and Region.	 The Supply Base is defined and mapped. the scope is defined and justified maps to the appropriate scale are available key personnel demonstrate an understanding of the Supply Base 	The description of the Supply Base and accompanying maps should be appropriate to its size and any variation within it.

iv) Additional Guidance: Supply Chain Management applicable at the Forest Level (UK-TPP requirement only)

UK-TPP Requirement (optional)	Examples of possible Evidence	Guidance
The UK-TPP requires that biomass can be traced back to the defined Supply Base. 1.1 Is the supply chain clearly described and complete from point of supply back to the forest source(s)? 1.2 Has an adequate mechanism for preventing uncontrolled mixing or	 transport documentation biomass input records existing legislation level of enforcement implementation of procedures to avoid mixing 	Biomass claimed to have originated from the Supply Base can be traced back to that Supply Base. Reference CPET Practical Guides: Category B evidence, supply chain information.

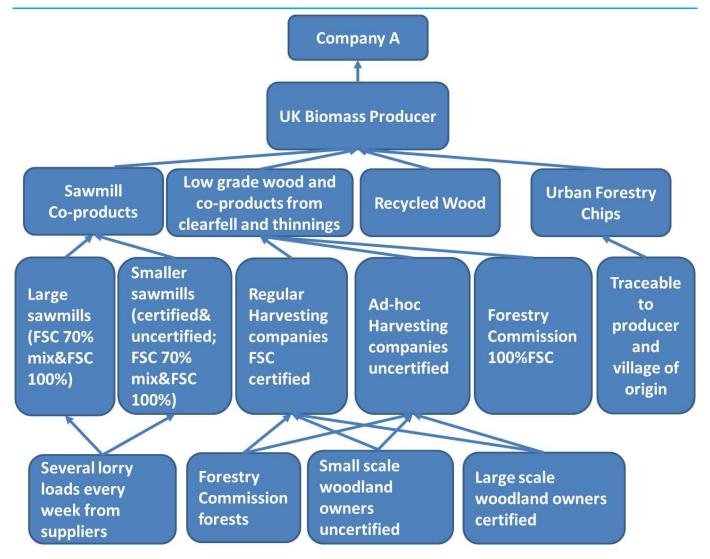
UK-TPP Requirement (optional)	Examples of possible Evidence	Guidance
substitution been described for each stage in the supply chain? 1.3 Has information been provided on how the mechanisms in 1.2 are checked/verified and is the approach used adequate to confirm the mechanisms described are in place and functional? 1.4 Is the evidence provided, or available, adequate to confirm the information provided is accurate?	 biomass inputs, including species and volumes, are consistent with the defined Supply Base transport documentation and goods-in records are compatible. 	

3. Checklist approach: UK case study 1 – electricity biomass supplier

- 3.1. The following risk-based regional assessment case study is for a UK based biomass producer who supplies to a UK power station. The company uses a variety of raw materials which are entirely sourced from the UK, predominantly mainland Great Britain including Scotland, England and Wales but occasionally with material originating from Northern Ireland.
- 3.2. The company asserts that there is low-risk of non-compliance with the woody biomass land criteria in the UK as a region. In addition, it uses the checklist to identify additional measures taken to ensure that the biomass it uses is in compliance, which includes sample audits of suppliers and sample audits of felling licences. The company operates on a risk-based approach, with increased checks on supplies which are received from new suppliers for example.
- 3.3. The rationale for the determination of low risk at the UK regional level is as follows:
 - All commercial timber in the UK must be felled with a felling license.
 - http://www.forestry.gov.uk/pdf/treefellingaugust.pdf/\$FILE/treefellingaugust.pdf
 - The Forestry Commission estimates that significantly less than 1% of UK timber on the market is illegal.
 - 44% of the total woodland area in the UK is FSC/PEFC certified. The 56% of
 uncertified woodland contains a very large area of 'unmanaged' woodland. The
 Company is aware that more timber is grown within the scope of an FSC or PEFC
 forest management certificate in the UK than is sold with a corresponding FSC or
 PEFC claim.
 - The Company estimates that of the remaining timber from uncertified woodlands that
 is traded 2/3 is supplied under the scope of a UK Forest Standard approved
 management plan, which has been approved by the regulatory authorities, including
 the Forestry Commission for England and Scotland, Natural Resource Wales (NRW)
 for Wales and the Forest Service for Northern Ireland.
 - The Company considers that of the remaining uncertified timber traded 1/3 is covered by a felling licence. Although the incidence of illegally harvested timber is low it undertakes a program of spot checks on 10% of all contracts which are not FSC/PEFC certified to ensure that they are covered by a corresponding valid felling licence. Where timber is offered outside of long term contracts or not from regular suppliers then the Company requires the supplier to provide a felling licence covering the incoming material.

- From when the RO and RHI regulations came into effect, the UK Government will provide exception for arboricultural residues which do not require a felling license but are considered to come from a sustainable source.
- Timber removed for infrastructure projects must comply with planning legislation which includes statutory and public consultation processes.
- The felling license process includes a 28 day period of statutory and public consultation, with all applications being place on a public register http://www.forestry.gov.uk/publicregisters.
- Felling licenses are only granted where the Forestry Commission for England and Scotland, NRW and the Forest Service for Northern Ireland are satisfied that the social and environmental criteria in the UKFS are met.
- The determination of sustainability is therefore an open, transparent and consultative process throughout UK, and all stakeholders have the opportunity to comment on any application.
- The risk of non-compliance with these requirements in the UK can be considered to be low risk.
- Additional guidance is provided in the document <u>CPET Guidance for the Growers of</u> Timber in the UK
- See http://www.forestry.gov.uk/ukfs

UK biomass producer supply chain map



Disclaimer: Please note that this supply chain map is only for illustrative purposes and is not intended to give any guidance about how to define consignment or to use the carbon calculator.

i) Credibility requirements

Woody biomass land criteria	Evidence provided
ROO2015: Schedule 3, para 6(1)(a), 6(2)(a)-(b), 6(3)(a)-(c)	All commercial timber in the UK must be felled with a felling license.
RHI 2011: Schedule 2B, part 2, para 5(1)(a), 5(2)(a)-(b), 5(3)(a)-(c)	http://www.forestry.gov.uk/pdf/treefellingaugust.pdf/\$FILE/treefellingaugust.
Equivalent wording also appears in the CfD contracts	pdf Timber removed for infrastructure
Woody biomass is obtained from a sustainable source if it was grown within an area of forest or other land which is managed in a way that is	projects must comply with planning legislation which includes statutory and public consultation processes.

consistent with the Forest Europe Sustainable Forest Management Criteria or a set of international principles for the sustainable management of land.

The set of international principles must have been adopted following a process ("the principles setting process") which sought to obtain a balanced representation of views of interest groupings, ensure that no single interest group could dominate the principle setting process and ensure that no decision on the contents of the principles could be made in the absence of agreement from a majority within each interest grouping involved in the principle setting process.

The set of international principles can be changed by a process ("the change process") which seeks to ensure that no single interest grouping can dominate the process and no decision on changes to the principles can be made in the absence of agreement from a majority within each interest grouping involved in the change process.

Each of the following is an interest grouping in relation to the forest (or other location where the wood was grown). Persons with interests which are predominantly:

- (a) economic in nature;
- (b) environmental in nature:
- (c) social in nature.

The felling license process includes a 28 day period of statutory and public consultation, with all application being place on a public register http://www.forestry.gov.uk/publicregisters

Felling licenses are only granted where the Forestry Commission for England and Scotland, NRW for Wales and the Forest Service for Northern Ireland are satisfied that the social and environmental criteria in the UKFS are met.

The determination of sustainability is therefore an open, transparent and consultative process through the UK, and all stakeholders have the opportunity to comment on any application.

The risk of non-compliance with these requirements in the GB can be considered to be low.

See http://www.forestry.gov.uk/ukfs

ii) Sustainability requirements

Woody biomass land criteria ¹⁰	Evidence provided
ROO2015: Schedule 3, 6(4)(a)(i) RHI 2011: Schedule 2B, part 2, 5(4)(a)(i) Harm to ecosystems is minimised, in particular by assessing the impacts of the extraction of wood from the area and adopting plans to minimise any negative impacts	44% of the total woodland area in the UK is independently certified. The remaining 56% of uncertified woodland contains a very large area of 'unmanaged' woodland.
	The uncertified timber that the company receives is either from woodlands managed under an approved UKFS management plan and covered by a valid UKFS Felling licence which includes statutory and public consultation and approval by the regulatory authority or is at least covered by a valid UKFS

¹⁰ Equivalent wording also appears in the CfD contracts

Woody biomass land criteria ¹⁰	Evidence provided
	Felling licence.
	This item is adequately covered under the PEFC/FSC certification process and also in woodlands managed under a UKFS approved management plan.
	For timber harvested under a UKFS felling licence the felling licence must be approved by the regulatory authority and may be inspected.
	All woodlands must be managed in compliance with the statutory legislation which is actively enforced in the UK.
	Biodiversity requirements of UKFS http://www.forestry.gov.uk/forestry/infd-8bveh4
ROO2015: Schedule 3, 6(4)(a)(ii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2,	See http://www.forestry.gov.uk/ukfs
5(4)(a)(ii)	Biodiversity requirements of UKFS
Harm to ecosystems is minimised, in particular by protecting soil, water	http://www.forestry.gov.uk/forestry/infd-8bveh4
and biodiversity.	UKFS and Water
	http://www.forestry.gov.uk/forestry/infd-8bvgx9
	UKFS and Soil
	http://www.forestry.gov.uk/forestry/infd-8bvguk
ROO2015: Schedule 3, 6(4)(a)(iii)	Evidence as set out in the top right box above.
and (iv) RHI 2011: Schedule 2B, part 2, 5(4)(a)(iii) and (iv)	There is a UK pesticide policy to regulate and minimise the use of pesticides in UK Forestry http://www.forestry.gov.uk/forestry/INFD-76LGM7
Harm to ecosystems is minimised, in particular by controlling the use of chemicals and ensuring that chemicals are used in an appropriate way and wherever possible, using integrated pest management	Extensive guidance and resource is available to support integrated pest management http://www.forestry.gov.uk/forestry/INFD-76LGSN
Integrated pest management is defined in Article 3(6) of Directive 2009/128/EC.	
ROO2015: Schedule 3, 6(4)(a)(v)	As above
RHI 2011: Schedule 2B, part 2, 5(4)(a)(v)	Waste management is tightly regulated in UK forests http://www.sepa.org.uk/planning/forestry.aspx
Harm to ecosystems is minimised, in	

Woody biomass land criteria ¹⁰	Evidence provided
particular by disposing of waste in a manner that minimises any negative impacts	
ROO2015: Schedule 3, 6(4)(b)(i)	Evidence as set out in the top right box above
RHI 2011: Schedule 2B, part 2, 5(4)(b)(i)	
The productivity of the area is maintained, in particular by adopting plans to avoid significant negative impacts on productivity	
ROO2015: Schedule 3, 6(4)(c)	Evidence as set out in the top right box above
RHI 2011: Schedule 2B, part 2, 5(4)(c)	
Compliance with the productivity requirements is monitored, the results of that monitoring are reviewed and planning updated accordingly	
ROO2015: Schedule 3, 6(4)(b)(ii)	Evidence as set out in the top right box above
RHI 2011: Schedule 2B, part 2, 5(4)(b)(ii)	
The productivity of the area is maintained, in particular by adopting procedures for the extraction of wood that minimise the impact on other uses of the area	
ROO2015: Schedule 3, 6(4)(b)(iii)	Evidence as set out in the top right box above
RHI 2011: Schedule 2B, part 2, 5(4)(b)(iii)	
The productivity of the area is maintained, in particular by providing for all of the contractors and workers who are working in the area to be adequately trained in relation to the maintenance of productivity	
ROO2015: Schedule 3, 6(4)(b)(iv)	Evidence as set out in the top right box above
RHI 2011: Schedule 2B, part 2, 5(4)(b)(iv)	
The productivity of the area is	

Woody biomass land criteria ¹⁰	Evidence provided
maintained, in particular by maintaining an adequate inventory of the trees in the area (including data on the growth of the trees and on the extraction of wood) so as to ensure that wood is extracted from the area at a rate which does not exceed its long-term capacity to produce wood	
ROO2015: Schedule 3, 6(4)(d)(i)	Evidence as set out in the top right box above
RHI 2011: Schedule 2B, part 2, 5(4)(d)(i)	
The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by adopting plans to maintain or increase the health and vitality of ecosystems	
ROO2015: Schedule 3, 6(4)(d)(ii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(d)(ii) The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by adopting plans to deal with natural events such as fires, pests and diseases	Additionally the regulatory authority has active polices for control of pests and diseases including the imposition of plant health restrictions, timber movement restrictions and enforced felling.
ROO2015: Schedule 3, 6(4)(d)(iii)	Evidence as set out in the top right box above
RHI 2011: Schedule 2B, part 2, 5(4)(d)(iii)	
The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by taking adequate measures to protect the area from unauthorised activities such as illegal logging, mining and encroachment	
ROO2015: Schedule 3, 6(4)(e)(i)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2,	Note also that statutory regulatory authorities with responsibility for protecting and safeguarding rare,

Woody biomass land criteria ¹⁰	Evidence provided
5(4)(e)(i) Biodiversity is maintained, in	threatened and endangered species are included in the statutory consultation process.
particular by implementing safeguards to protect rare, threatened and endangered species	Biodiversity requirements of UKFS http://www.forestry.gov.uk/forestry/infd-8bveh4
ROO2015: Schedule 3, 6(4)(e)(ii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(e)(ii) Biodiversity is maintained, in particular by conserving key	Note also that statutory regulatory authorities with responsibility for conservation/set-aside of key ecosystems or habitats are included in the statutory consultation process.
ecosystems in their natural state	Biodiversity requirements of UKFS http://www.forestry.gov.uk/forestry/infd-8bveh4
ROO2015: Schedule 3, 6(4)(e)(iii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(e)(iii) Biodiversity is maintained, in particular by protecting features and	Note also that statutory regulatory authorities with responsibility for protection of features and species of outstanding or exceptional value are included in the statutory consultation process.
species of outstanding or exceptional value	Biodiversity requirements of UKFS http://www.forestry.gov.uk/forestry/infd-8bveh4
ROO2015: Schedule 3, 6(4)(f)	Evidence as set out in the top right box above.
ROO2015: Schedule 3, 6(4)(f) RHI 2011: Schedule 2B, part 2, 5(4)(f)	Evidence as set out in the top right box above. Note that there is extensive labour and welfare legislation in the UK which is actively enforced.
RHI 2011: Schedule 2B, part 2,	Note that there is extensive labour and welfare
RHI 2011: Schedule 2B, part 2, 5(4)(f) Those responsible for the management of the area (and any contractors engaged by them) to comply with the local and national laws relating to health and safety	Note that there is extensive labour and welfare legislation in the UK which is actively enforced. A list of health and safety regulation is included at the end of this checklist. Legal, customary and traditional tenure and use
RHI 2011: Schedule 2B, part 2, 5(4)(f) Those responsible for the management of the area (and any contractors engaged by them) to comply with the local and national laws relating to health and safety and the welfare of workers ROO2015: Schedule 3, 6(4)(g)(i) RHI 2011: Schedule 2B, part 2, 5(4)(g)(i)	Note that there is extensive labour and welfare legislation in the UK which is actively enforced. A list of health and safety regulation is included at the end of this checklist.
RHI 2011: Schedule 2B, part 2, 5(4)(f) Those responsible for the management of the area (and any contractors engaged by them) to comply with the local and national laws relating to health and safety and the welfare of workers ROO2015: Schedule 3, 6(4)(g)(i) RHI 2011: Schedule 2B, part 2,	Note that there is extensive labour and welfare legislation in the UK which is actively enforced. A list of health and safety regulation is included at the end of this checklist. Legal, customary and traditional tenure and use rights are protected through the UK legal system which is actively enforced. There are no indigenous
RHI 2011: Schedule 2B, part 2, 5(4)(f) Those responsible for the management of the area (and any contractors engaged by them) to comply with the local and national laws relating to health and safety and the welfare of workers ROO2015: Schedule 3, 6(4)(g)(i) RHI 2011: Schedule 2B, part 2, 5(4)(g)(i) Those responsible for the management of the area have regard to legal, customary and traditional rights of tenure and land	Note that there is extensive labour and welfare legislation in the UK which is actively enforced. A list of health and safety regulation is included at the end of this checklist. Legal, customary and traditional tenure and use rights are protected through the UK legal system which is actively enforced. There are no indigenous peoples in the UK. Traditional tenure and use rights of local communities related to the forest are identified, documented and respected in forests certified to FSC/PEFC and those managed under an approved

Woody biomass land criteria ¹⁰	Evidence provided
	proportion the risk that these rights are not respected is very low.
	Consideration and consultation on these use rights is made during the felling licence consultation process.
ROO2015: Schedule 3, 6(4)(g)(ii)	There are active mechanisms in the UK for resolving
RHI 2011: Schedule 2B, part 2, 5(4)(g)(ii)	disputes relating to use rights, to forest (or land) management practices and to work conditions.
Those responsible for the management of the area have regard to mechanisms for resolving grievances and disputes including those relating to tenure and land use rights, forest or land management practices and working conditions	
ROO2015: Schedule 3, 6(4)(g)(iii)	Basic labour rights and health and safety of forest
RHI 2011: Schedule 2B, part 2, 5(4)(g)(iii)	workers are safeguarded through the UK legal system which is actively enforced.
Those responsible for the management of the area have regard to safeguarding the health and safety and rights of workers	Freedom of association and the effective recognition of the right to collective bargaining are included in UK legislation which is actively enforced. There is a very low risk of compulsory or forced labour in the UK. There is a low risk of child labour in the UK. Elimination of discrimination in respect of employment and occupation is included in UK legislation which his actively enforced.
	Forestry was specifically exempted from UK Gangmasters legislation.
	http://www.gla.gov.uk/Guidance/Information-on- Licensing/Forestry/

iii) Defining the Supply Base

Guidance	Evidence provided
Biomass should originate from an independently verifiable legal and sustainable source and appropriate documentation is provided to prove it. The Woodfuel Guidance advises on definition of Supply Base and Region.	The Company sources a variety of raw materials solely from UK predominantly mainland GB, including Scotland, England and Wales and occasionally from material originating from Northern Ireland. The company defines its supply base as

Great Britain and Northern Holand.	Gre	eat Britain and Northern Ireland.
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iv) Additional Guidance: Supply Chain Management applicable at the Forest Level (UK-TPP requirement only)

UK-TPP Requirement (optional)	Evidence provided
 1.1 Is the supply chain clearly described and complete from point of supply back to the forest source(s)? 1.2 Has an adequate mechanism for preventing uncontrolled mixing or substitution been described for each stage in the supply chain? 1.3 Has information been provided on how the mechanisms in 1.2 are checked/verified and is the approach used adequate to confirm the mechanisms described are in place and functional? 1.4 Is the evidence provided, or available, adequate to confirm the information provided is accurate? 	In addition to material received with an FSC and PEFC certified claim the Company uses a combination of delivery notes, contracts, and statutory transport documents to ensure that the incoming raw material can be traced back to the Supply Base. Additionally, the company includes requirements in its supply contracts that its suppliers ensure that material is only supplied from within the UK. The company contracts with sawmills require that only UK based material is being fed into the sawmill and hence the secondary products are of UK origin.

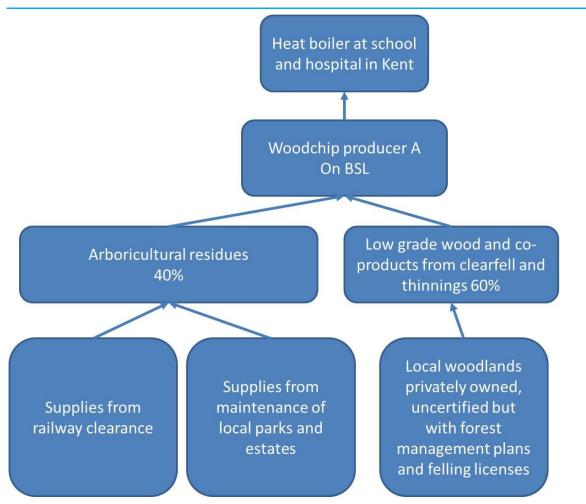
4. Checklist approach: UK case study 2 – small biomass heat supplier listed on the Biomass Suppliers List

For relevant legislation concerning the Woody biomass land criteria refer to the table in Chapter 2.

- 4.1. The following risk-based regional assessment is presented for a small UK based woodchip producer on the BSL list who supplies a UK heat boiler installed at a nearby school and hospital in Kent, England. The producer sources on average 40% of its biomass from arboricultural residues and 60% of low grade wood and co-products from clearfell and thinnings from local woodlands, all within 20 miles of the producer's facility.
- 4.2. The producer defines his supply base as the county of Kent and the region as England. He thinks there is low-risk of non-compliance with the woody biomass land criteria in England as a region.
- 4.3. The rationale for the determination of low risk at the England regional level is in line with UK case study 1 and goes as follows:
 - All commercial timber in England must be felled with a felling license.
 - http://www.forestry.gov.uk/pdf/treefellingaugust.pdf/\$FILE/treefellingaugust.pdf
 - The Forest Commission estimates that significantly less than 1% of UK timber on the market is illegal.
 - Approximately 27% of all woodland area in England is independently certified.
 - The producer estimates that of the remaining uncertified timber traded 2/3 is supplied under the scope of a UK Forest Standard approved management plan, which has been approved by the regulatory authorities, including the Forestry Commission for England.
 - The producer considers that the remaining timber received is covered by a felling licence.
 - Timber removed for infrastructure projects must comply with planning legislation which includes statutory and public consultation processes.
 - The felling license process includes a 28 day period of statutory and public consultation, with all applications being place on a public register http://www.forestry.gov.uk/publicregisters.

- Felling licenses are only granted where the Forestry Commission England is satisfied that the social and environmental criteria in the UKFS are met.
- The determination of sustainability is therefore an open, transparent and consultative process throughout UK, and all stakeholders have the opportunity to comment on any application.
- 4.4. In line with the August 2014 Government response to the consultation on adjustments to sustainability and reporting provisions for biomass (https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/343005/Response_to_Biomass_Consultation.pdf), the producer considers the biomass sourced from arboricultural residues as sustainable and compliant with the woody biomass land criteria from when the CfD and ROO2015 and the 2015 amendments to the RHI 2011 come into force. He is currently collecting all necessary evidence such as invoices and receipts indicating volumes and the location/address of origin of arboricultural residues.
- 4.5. When sourcing the remaining 60% of low grade wood and co-products from clearfell and thinnings from local woodlands, the producer requests proof of traceability back to the Forest Management Unit (FMU) such as invoices, delivery notes, contracts with woodland mangers or contractors and statutory transport documents. He also requires a copy of a valid UK felling license and a Forest Management Plan in line with the UK Forestry Standard Requirements and Guidelines for these FMUs to accompany biomass deliveries.
- 4.6. The producer refers to the official document "CPET guidance for growers of wood in the UK" which states that timber traceable to a forest with a fully implemented Forest Management Plan and a valid felling license in line with the UK Forestry Standard (UKFS) Requirements and Guidelines meets the woody biomass land criteria. Consequently, the 60% of low grade wood and co-products from clearfell and thinnings sourced from local woodlands and traceable back to specific FMUs that are covered by a valid felling license and a fully implemented Forest Management Plan in line with the UK Forestry Standard Requirements and Guidelines comply with these criteria.

Small UK biomass heat supplier supply chain map



Disclaimer: Please note that this supply chain map is only for illustrative purposes and is not intended to give any guidance about how to define consignment or to use the carbon calculator.

i) Credibility requirements

Woody biomass land criteria	Evidence provided
ROO2015: Schedule 3, para 6(1)(a), 6(2)(a)-(b), 6(3)(a)-(c)	All commercial timber in the UK must be felled with a felling license.
RHI 2011: Schedule 2B, part 2, para 5(1)(a), 5(2)(a)-(b), 5(3)(a)-(c)	http://www.forestry.gov.uk/pdf/treef ellingaugust.pdf/\$FILE/treefellingau gust.pdf
Equivalent wording also appears in the CfD contracts	Timber removed for infrastructure
Woody biomass is obtained from a sustainable source if it was grown within an area of forest or other land which is managed in a way that is consistent with the	projects must comply with planning legislation which includes statutory and public consultation processes.
Forest Europe Sustainable Forest Management Criteria or a set of international principles for the	The felling license process includes a 28 day period of statutory and

sustainable management of land.

The set of international principles must have been adopted following a process ("the principles setting process") which sought to obtain a balanced representation of views of interest groupings, ensure that no single interest group could dominate the principle setting process and ensure that no decision on the contents of the principles could be made in the absence of agreement from a majority within each interest grouping involved in the principle setting process.

The set of international principles can be changed by a process ("the change process") which seeks to ensure that no single interest grouping can dominate the process and no decision on changes to the principles can be made in the absence of agreement from a majority within each interest grouping involved in the change process.

Each of the following is an interest grouping in relation to the forest (or other location where the wood was grown). Persons with interests which are predominantly:

- (a) economic in nature;
- (b) environmental in nature;
- (c) social in nature.

public consultation, with all application being place on a public register

http://www.forestry.gov.uk/publicre gisters

Felling licenses are only granted where the Forestry Commission is satisfied that the social and environmental criteria in the UKFS are met.

The determination of sustainability is therefore an open, transparent and consultative process through the UK, and all stakeholders have the opportunity to comment on any application.

The risk of non-compliance with these requirements in the GB can be considered to be low risk.

See http://www.forestry.gov.uk/ukfs

ii) Sustainability requirements

Woody biomass land criteria ¹¹	Evidence provided
ROO2015: Schedule 3, 6(4)(a)(i) RHI 2011: Schedule 2B, part 2,	27% of all woodland in England is independently certified.
5(4)(a)(i) Harm to ecosystems is minimised, in particular by assessing the impacts of the extraction of wood from the area and adopting plans to minimise any negative impacts	All low grade wood and co-products from clearfell and thinnings purchased by the producer are traceable back to a FMU with an approved UKFS management plan and a valid UKFS Felling licence which includes statutory and public consultation and approval by the regulatory authority.
	This item is adequately covered under the PEFC/FSC certification process and also in woodlands managed under a UKFS approved

¹¹ Equivalent wording also appears in the CfD contracts

Woody biomass land criteria ¹¹	Evidence provided
	management plan.
	For timber harvested under a UKFS felling licence the felling licence must be approved by the regulatory authority and may be inspected.
	All woodlands must be managed in compliance with the statutory legislation which is actively enforced in UK.
	Biodiversity requirements of UKFS http://www.forestry.gov.uk/forestry/infd-8bveh4
ROO2015: Schedule 3, 6(4)(a)(ii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2,	See http://www.forestry.gov.uk/ukfs
5(4)(a)(ii)	Biodiversity requirements of UKFS
Harm to ecosystems is minimised, in particular by protecting soil, water	http://www.forestry.gov.uk/forestry/infd-8bveh4
and biodiversity.	UKFS and Water
	http://www.forestry.gov.uk/forestry/infd-8bvgx9
	UKFS and Soil
	http://www.forestry.gov.uk/forestry/infd-8bvguk
ROO2015: Schedule 3, 6(4)(a)(iii)	Evidence as set out in the top right box above.
and (iv) RHI 2011: Schedule 2B, part 2, 5(4)(a)(iii) and (iv)	There is a UK pesticide policy to regulate and minimise the use of pesticides in UK Forestry http://www.forestry.gov.uk/forestry/INFD-76LGM7
Harm to ecosystems is minimised, in particular by controlling the use of chemicals and ensuring that chemicals are used in an appropriate way and wherever possible, using integrated pest management	Extensive guidance and resource is available to support integrated pest management http://www.forestry.gov.uk/forestry/INFD-76LGSN
Integrated pest management is defined in Article 3(6) of Directive 2009/128/EC.	
ROO2015: Schedule 3, 6(4)(a)(v)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(a)(v)	Waste management is tightly regulated in UK forests http://www.sepa.org.uk/planning/forestry.aspx
Harm to ecosystems is minimised, in particular by disposing of waste in a manner that minimises any negative impacts	

Woody biomass land criteria ¹¹	Evidence provided
ROO2015: Schedule 3, 6(4)(b)(i) RHI 2011: Schedule 2B, part 2, 5(4)(b)(i)	Evidence as set out in the top right box above.
The productivity of the area is maintained, in particular by adopting plans to avoid significant negative impacts on productivity	
ROO2015: Schedule 3, 6(4)(c)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(c)	
Compliance with the productivity requirements is monitored, the results of that monitoring are reviewed and planning updated accordingly	
ROO2015: Schedule 3, 6(4)(b)(ii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(b)(ii)	
The productivity of the area is maintained, in particular by adopting procedures for the extraction of wood that minimise the impact on other uses of the area	
ROO2015: Schedule 3, 6(4)(b)(iii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(b)(iii)	
The productivity of the area is maintained, in particular by providing for all of the contractors and workers who are working in the area to be adequately trained in relation to the maintenance of productivity	
ROO2015: Schedule 3, 6(4)(b)(iv)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(b)(iv)	
The productivity of the area is maintained, in particular by maintaining an adequate inventory of the trees in the area (including	

Woody biomass land criteria ¹¹	Evidence provided
data on the growth of the trees and on the extraction of wood) so as to ensure that wood is extracted from the area at a rate which does not exceed its long-term capacity to produce wood	
ROO2015: Schedule 3, 6(4)(d)(i)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(d)(i)	
The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by adopting plans to maintain or increase the health and vitality of ecosystems	
ROO2015: Schedule 3, 6(4)(d)(ii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(d)(ii)	Additionally the regulatory authority has active polices for control of pests and diseases including the imposition of plant health restrictions, timber
The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by adopting plans to deal with natural events such as fires, pests and diseases	movement restrictions and enforced felling.
ROO2015: Schedule 3, 6(4)(d)(iii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(d)(iii)	
The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by taking adequate measures to protect the area from unauthorised activities such as illegal logging, mining and encroachment	
ROO2015: Schedule 3, 6(4)(e)(i)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(e)(i)	Note also that statutory regulatory authorities with responsibility for protecting and safeguarding rare,
Biodiversity is maintained, in particular by implementing	threatened and endangered species are included in the statutory consultation process. Riodiversity requirements of LIKES
safeguards to protect rare,	Biodiversity requirements of UKFS

Woody biomass land criteria ¹¹	Evidence provided
threatened and endangered species	http://www.forestry.gov.uk/forestry/infd-8bveh4
ROO2015: Schedule 3, 6(4)(e)(ii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(e)(ii) Biodiversity is maintained, in particular by conserving key	Note also that statutory regulatory authorities with responsibility for conservation/set-aside of key ecosystems or habitats are included in the statutory consultation process.
ecosystems in their natural state	Biodiversity requirements of UKFS http://www.forestry.gov.uk/forestry/infd-8bveh4
ROO2015: Schedule 3, 6(4)(e)(iii)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(e)(iii) Biodiversity is maintained, in particular by protecting features and	Note also that statutory regulatory authorities with responsibility for protection of features and species of outstanding or exceptional value are included in the statutory consultation process.
species of outstanding or exceptional value	Biodiversity requirements of UKFS http://www.forestry.gov.uk/forestry/infd-8bveh4
ROO2015: Schedule 3, 6(4)(f)	Evidence as set out in the top right box above.
RHI 2011: Schedule 2B, part 2, 5(4)(f)	Note that there is extensive labour and welfare legislation in the UK which is actively enforced.
Those responsible for the management of the area (and any contractors engaged by them) to comply with the local and national laws relating to health and safety and the welfare of workers	A list of health and safety regulation is included at the end of this checklist.
ROO2015: Schedule 3, 6(4)(g)(i) RHI 2011: Schedule 2B, part 2, 5(4)(g)(i)	Legal, customary and traditional tenure and use rights are protected through the UK legal system which is actively enforced. There are no indigenous peoples in the UK.
Those responsible for the management of the area have regard to legal, customary and traditional rights of tenure and land use	Traditional tenure and use rights of local communities related to the forest are identified, documented and respected in forests certified to FSC/PEFC and those managed under an approved UKFS Management plan.
	For the remaining 5% of woodland these traditional tenure and use rights of local communities related to the forest may not be documented.
	The company considers that within this small proportion the risk that these rights are not respected is very low.
	Consideration and consultation on these use rights

Woody biomass land criteria ¹¹	Evidence provided
	is made during the felling licence consultation process.
ROO2015: Schedule 3, 6(4)(g)(ii) RHI 2011: Schedule 2B, part 2, 5(4)(g)(ii) Those responsible for the management of the area have regard to mechanisms for resolving grievances and disputes including those relating to tenure and land use rights, forest or land management practices and working conditions	There are active mechanisms in the UK for resolving disputes relating to use rights, to forest (or land) management practices and to work conditions.
ROO2015: Schedule 3, 6(4)(g)(iii) RHI 2011: Schedule 2B, part 2, 5(4)(g)(iii) Those responsible for the management of the area have regard to safeguarding the health and safety and rights of workers	Basic labour rights and health and safety of forest workers are safeguarded through the UK legal system which is actively enforced. Freedom of association and the effective recognition of the right to collective bargaining are included in UK legislation which is actively enforced. There is a very low risk of compulsory or forced labour in UK. There is a low risk of child labour in the UK. Elimination of discrimination in respect of employment and occupation is included in UK legislation which his actively enforced. Forestry was specifically exempted from UK Gangmasters legislation. http://www.gla.gov.uk/Guidance/Information-on-Licensing/Forestry/

iii) Defining the Supply Base

Guidance	Evidence provided
Biomass should originate from an independently verifiable legal and sustainable source and appropriate documentation is provided to prove it. The Woodfuel Guidance advises on definition of Supply Base and Region.	The producer sources on average 40% of its biomass from arboricultural residues and 60% of low grade wood and coproducts from clearfell and thinnings from local woodlands, all within 20 miles of the producer's facility.
	He defines its supply base as the county of Kent and the region as England.

iv) Additional Guidance: Supply Chain Management applicable at the Forest Level (UK-TPP requirement only)

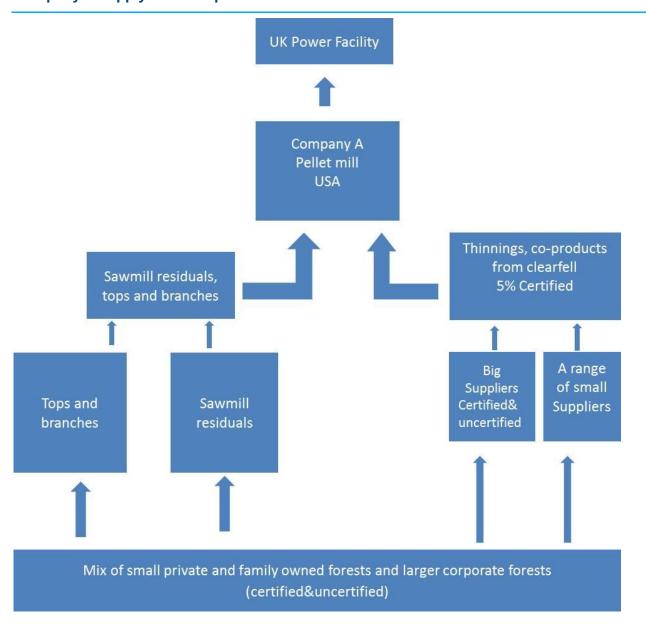
UK-TPP Requirement (optional)	Evidence provided
1.1 Is the supply chain clearly described and complete from point of supply back to the forest source(s)?	The producer uses a combination of invoices, delivery notes, contracts, and statutory transport documents to ensure
1.2 Has an adequate mechanism for preventing uncontrolled mixing or substitution been described for each stage in the supply chain?	that the incoming low grade wood and co- products from clearfell and thinnings can be traced back to FMUs, all located within 20 miles of the facility.
1.3 Has information been provided on how the mechanisms in 1.2 are checked/verified and is the approach used adequate to confirm the mechanisms described are in place and functional?	
1.4 Is the evidence provided, or available, adequate to confirm the information provided is accurate?	

5. Checklist approach: USA case study – two biomass suppliers

For relevant legislation concerning the Woody biomass land criteria refer to the table in Chapter 2.

5.1. Company A facility is located in region A of the United States. Its supply base extends for an approximate radius of 70 miles. Pine is the only species purchased. Thinnings and co-products from clearfell constitute approximately 85% of total wood consumption. Nearly 70% of this is purchased through two main suppliers. One of the main suppliers is SFI certified, the other is not certified. The rest of the thinnings and co-products from clearfell are purchased through a range of different suppliers on an annual basis.

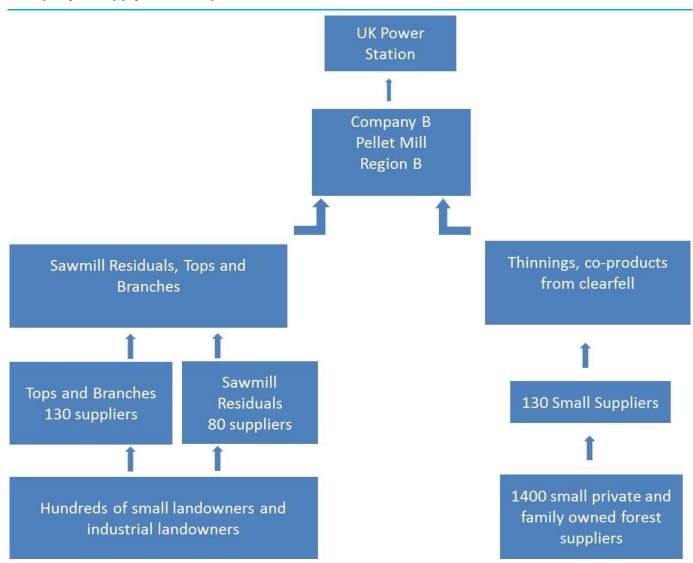
Company A supply chain map:



Disclaimer: Please note that this supply chain map is only for illustrative purposes and is not intended to give any guidance about how to define consignment or to use the carbon calculator.

- 5.2. Company B facility is situated in region B, a heavily forested area of the US.
- 5.3. This region's forests are owned primarily by individuals and families, although there is still significant company ownership in some areas. SFI and American Tree Farm System (both PEFC endorsed) constitute the overwhelming portion of certified properties in the region with FSC certification making up less than 5% of the volume. However, this is still an insignificant portion of total forested area. The facility catchment area extends for an approximate radius of 75 miles. Thinnings and co-products from clearfell constitute the majority of the procured wood and are purchased from a range of suppliers.

Company B supply chain map:



Disclaimer: Please note that this supply chain map is only for illustrative purposes and is not intended to give any guidance about how to define consignment or to use the carbon calculator.

(c) social in nature.

i) Credibility requirements		
Woody biomass land criteria	Evidence provided	
ROO2015: Schedule 3, para 6(1)(a), 6(2)(a)-(b), 6(3)(a)-(c) RHI 2011: Schedule 2B, part 2, para 5(1)(a), 5(2)(a)-(b), 5(3)(a)-(c) Equivalent wording also appears in the CfD contracts Woody biomass is obtained from a sustainable source if it was grown within an area of forest or other land which is managed in a way that is consistent with the Forest Europe Sustainable Forest Management Criteria or a set of international principles for the sustainable management of land. The set of international principles must have been adopted following a process ("the principles setting process") which sought to obtain a balanced representation of views of interest groupings, ensure that no single interest group could dominate the principle setting process and ensure that no decision on the contents of the principles could be made in the absence of agreement from a majority within each interest grouping involved in the principle setting process. The set of international principles can be changed by a process ("the change process") which seeks to ensure that no single interest grouping can dominate the process and no decision on changes to the principles can be made in the absence of agreement from a majority within each interest grouping involved in the change process. Each of the following is an interest grouping in relation to the forest (or other location where the wood was grown). Persons with interests which are predominantly: (a) economic in nature;	Companies A and B cite core legislation (i.e Clean Water Act, Clean Air Act, Endangered Species Act, EPA regulations, Forestry acts, pesticides legislation. FIFRA, H&S controls through OSHA) all drawn up within a dynamic democratic system, subject to free comment by all stakeholders. Best Management Practices (BMPs) that are voluntary guides for forest practices) are drawn up by multistakeholder groups and subject to periodic revision. Activities of all actors are open to comment, and there is a process of democratic change, in an environment where free speech is strongly protected.	
(b) environmental in nature;		

ii) Sustainability requirements

Woody biomass land criteria ¹²	Evidence provided
ROO2015: Schedule 3, 6(4)(a)(i)	Company A states: Use of BMPs and trained loggers.
RHI 2011: Schedule 2B, part 2,	Records of state wide compliance with BMPs.
5(4)(a)(i) Harm to ecosystems is minimised, in particular by assessing the impacts	SFI inconsistent practices records.
	Maps of known areas of concern available.
of the extraction of wood from the	Ad hoc monitoring and formal audit records.
area and adopting plans to minimise any negative impacts	FSC/PEFC due diligence exercise may inform us of particular risks.
	<u>Company B</u> states: the SFI Fiber Sourcing Standard certification provides evidence of logger training, use and promotion of forestry "Best Management Practices", and monitoring of the use of these practices.
	SFI Indicator 10.2.1, requires that Company annually conduct and use BMP monitoring information to maintain rates of conformance to best management practices and to identify areas for improved performance.
	Each State Forestry Agency/Commission conducts periodic BMP implementation monitoring. See the websites listed in requirement 1.4.1.
ROO2015: Schedule 3, 6(4)(a)(ii) RHI 2011: Schedule 2B, part 2,	Company A states: Federal and State legislation such as Clean Water Act, Endangered Species Act etc.
5(4)(a)(ii) Harm to ecosystems is minimised, in	Some areas already under State/Federal management and therefore protected.
particular by protecting soil, water	Use of BMPs and trained loggers.
and biodiversity.	Records of state wide compliance with BMPs.
	Ad hoc monitoring and formal audit records.
	Maps of known areas of concern available.
	FSC/PEFC due diligence exercise may inform us of particular risks.
	Company B states: BMPs that are required by SFI address the protection of soils from erosion, compaction and disturbance. BMP compliance is consistently higher than 95%, which is considered Full Compliance.

¹² Equivalent wording also appears in the CfD contracts

Woody biomass land criteria ¹²	Evidence provided
	See SFI Fiber Sourcing Program and BMP Monitoring Reports.
	Company requires the use of trained loggers and virtually all of the wood in the supply area is harvested by trained loggers;
	Compliance with BMPs is required in contracts with loggers and suppliers.
	Conformance can be judged and confirmed as adequate at the State level.
	Company requires compliance with applicable forestry and environmental laws in its contracts with dealer and brokers, but is not directly involved in harvesting and land management operations.
	Each State Forestry Agency/Commission conducts periodic BMP implementation monitoring. See the websites listed in requirement 1.4.1.
	Company takes steps to communicate the importance of wildlife and biodiversity protection with landowners.
	Landowners and their consulting foresters engage in such activities outside of the procurement contract with Company.
	The Standard should differentiate those activities and practices conducted by landowners and not wood procurement organizations.
ROO2015: Schedule 3, 6(4)(a)(iii) and (iv)	<u>Company A</u> : Strong legal framework for the use of pesticides, enforced effectively through EPA. Penalties for non-compliance.
RHI 2011: Schedule 2B, part 2, 5(4)(a)(iii) and (iv)	Application by licensed operators.
Harm to ecosystems is minimised, in particular by controlling the use of chemicals and ensuring that chemicals are used in an appropriate way and wherever possible, using integrated pest management Integrated pest management is defined in Article 3(6) of Directive 2009/128/EC.	Periodic inspection.
	<u>Company B</u> states: Chemicals applied commercially (on lands not owned) are strictly regulated, with trained, licensed applicators.
	See EPA website for regulation of forest chemicals under Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).
	U. S. Environmental Protection Agency home page
	U. S. Environmental Protection Agency's Office of Water home page
ROO2015: Schedule 3, 6(4)(a)(v)	Company A uses as evidence State and federal

Woody biomass land criteria ¹²	Evidence provided
RHI 2011: Schedule 2B, part 2,	legislation regarding waste.
5(4)(a)(v) Harm to ecosystems is minimised, in particular by disposing of waste in a manner that minimises any negative	Implementation of BMPs.
	Inspection results.
impacts	Company B monitors removal of trash and other garbage through its BMP Monitoring Reports.
	State BMPs require the removal of garbage.
	The Company BMP Monitoring Checklist includes the removal of all such trash.
ROO2015: Schedule 3, 6(4)(b)(i)	Company A uses access to State and FIA data.
RHI 2011: Schedule 2B, part 2,	State summary of forestry activity.
5(4)(b)(i) The productivity of the area is	Fibre study available.
maintained, in particular by adopting plans to avoid significant negative impacts on productivity	Company B's procurement of wood material contributes to reducing environmental impacts and enhancing the productivity of forests. Markets for low valued wood products allow for more efficient site preparation and reforestation. However, this requirement is outside the scope of the Company's wood procurement/fiber sourcing program. The latest forest inventory data for region B indicate that softwood and hardwood inventories are increasing. Selected FIA Updates are available on-line: Alabama: http://www.srs.fs.usda.gov/pubs/su/su_srs042.pdf
	Arkansas:
	(http://www.srs.fs.fed.us/pubs/su/su_srs055.pdf)
	North Carolina:
	(http://www.srs.fs.usda.gov/pubs/su/su_srs044.pdf)
	Florida: http://www.srs.fs.fed.us/pubs/su/su_srs071.pdf
ROO2015: Schedule 3, 6(4)(c)	Company A
RHI 2011: Schedule 2B, part 2, 5(4)(c)	Implementation of SFI (objective 20) and PEFC (standard 8) procedures that require comprehensive annual monitoring and review. Compliance is monitored
Compliance with the productivity requirements is monitored, the results of that monitoring are reviewed and planning updated	through internal audits and the results are reported to management during a management review meeting. Relies on SFI inconsistent practices records.

Woody biomass land criteria ¹²	Evidence provided
accordingly	SFI training programmes.
	Monitoring program at pellet mill.
	Feedback through minutes and actions.
	<u>Company B</u> does not monitor forest growth and productivity on private lands owned by family forest owners and corporate entities.
	The Company BMP Monitoring Checklist, monitoring conducted by the State where region B is located, inventory and analysis, statewide forest resources assessments, etc. all address monitoring.
	SFI Objective 20 requiring an annual management review of monitoring and other information adequately.
ROO2015: Schedule 3, 6(4)(b)(ii) RHI 2011: Schedule 2B, part 2,	Company A sites: Compliance with legislation – Clean Water Act, Endangered Species, etc.
5(4)(b)(ii)	Follow BMPs.
The productivity of the area is	Use of trained loggers.
maintained, in particular by adopting procedures for the extraction of	Fire response plans, wet weather response plan.
wood that minimise the impact on other uses of the area	Outreach to landowners.
	Company B has a Program to ensure that harvests of purchased stumpage comply with BMPs. This includes use of a BMP Monitoring Form (10.1,2,b).
	Company annually uses BMP monitoring information to maintain rates of conformance to best management practices and to identify areas for improved performance.
ROO2015: Schedule 3, 6(4)(b)(iii)	Company A uses trained loggers.
RHI 2011: Schedule 2B, part 2, 5(4)(b)(iii)	In-house training of personnel.
The productivity of the area is maintained, in particular by providing for all of the contractors and workers who are working in the area to be adequately trained in relation to the maintenance of productivity	Company B conducts in-depth internal SFI training for all responsible staff.
	Company requires logging contractors that work directly for the company to be SFI trained and encourages its indirect Wood Suppliers to encourage their contractors to attend SFI Training.
	Training records of all SFI, FSC, PEFC Standards training are maintained and are available upon request.

Woody biomass land criteria ¹²	Evidence provided
ROO2015: Schedule 3, 6(4)(b)(iv) RHI 2011: Schedule 2B, part 2,	Company A uses FIA Data for catchment where available.
5(4)(b)(iv)	State summary of forestry activity.
The productivity of the area is	Fibre study available.
maintained, in particular by maintaining an adequate inventory	Records of fibre used available.
of the trees in the area (including data on the growth of the trees and	Regular review of fibre position around facility.
on the extraction of wood) so as to ensure that wood is extracted from the area at a rate which does not exceed its long-term capacity to produce wood	<u>Company B</u> states: The latest forest inventory data for region B reflect increases in both hardwood and softwood volume.
ROO2015: Schedule 3, 6(4)(d)(i)	Company A and B submit: US Forest Service and
RHI 2011: Schedule 2B, part 2, 5(4)(d)(i)	State forest services undertake research into forest health, their research results are available.
The area is managed in a way that	BMPs in place.
ensures the health and vitality of	Outline local fire response plans.
ecosystems is maintained, in particular by adopting plans to maintain or increase the health and	Outline any other operations for forest health such as thinning.
vitality of ecosystems	Have State data to hand to show increasing yields per acre.
	Monitoring of above activities.
ROO2015: Schedule 3, 6(4)(d)(ii)	Company A and B: As "a" above.
RHI 2011: Schedule 2B, part 2, 5(4)(d)(ii)	
The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by adopting plans to deal with natural events such as fires, pests and diseases	
ROO2015: Schedule 3, 6(4)(d)(iii)	Company A states: Generally low risk of illegal logging
RHI 2011: Schedule 2B, part 2,	see PEFC Due Diligence Risk Assessment.
5(4)(d)(iii) The area is managed in a way that ensures the health and vitality of ecosystems is maintained, in particular by taking adequate	Demonstrate reports from SFI inconsistent practices, other prosecutions by EPA.
	<u>Company B</u> 's SFI Fibre Sourcing Procedures address security, legality and vandalism.
measures to protect the area from unauthorised activities such as	BMP Monitoring Reports address legality and

Woody biomass land criteria ¹²	Evidence provided
illegal logging, mining and encroachment	unauthorized activities.
	Copies of the SFI Procurement Program are available.
ROO2015: Schedule 3, 6(4)(e)(i) RHI 2011: Schedule 2B, part 2, 5(4)(e)(i)	Company A Federal and State legislation such as Endangered species act, Clean Water Act are policed effectively.
Biodiversity is maintained, in particular by implementing	Certification under the SFI Fiber Sourcing Standard, including:
safeguards to protect rare, threatened and endangered species	Demonstrable compliance with BMPs especially in SMZ's.
	Trained loggers.
	Knowledge (maps) of known sensitive areas, some with statutory protection.
	Company B's existing certification under the SFI Fiber Sourcing Standard requires: "shall provide information to landowners for identification and protection of important habitat elements for wildlife and biodiversity, including Forests with Exceptional Conservation Value."
ROO2015: Schedule 3, 6(4)(e)(ii)	Company A: See answer to 'a' above
RHI 2011: Schedule 2B, part 2, 5(4)(e)(ii) Biodiversity is maintained, in particular by conserving key	Company B states: All of the States where region B is located have Forestry Assessments and Strategies, as well as Wildlife Action Plans.
ecosystems in their natural state	Websites for various States include:
	http://www.forestactionplans.org/regional-state
	Florida:
	http://myfwc.com/conservation/special- initiatives/fwli/action-plan/
	Alabama:
	http://teaming.com/wildlife-action-plan/alabama
ROO2015: Schedule 3, 6(4)(e)(iii)	Company A: See answer to 'a' above.
RHI 2011: Schedule 2B, part 2, 5(4)(e)(iii)	Company B has accessed the State Natural Heritage
Biodiversity is maintained, in particular by protecting features and species of outstanding or exceptional value	Databases for the wood supply areas where purchased stumpage tracts are located.
	Where the Natural Heritage Database indicates that a G-1 or G-2 species or community is known to exist in close proximity to the tract, Company will assess whether the species or community is actually present on

Woody biomass land criteria ¹²	Evidence provided
	the tract and notify the landowner prior to harvesting.
ROO2015: Schedule 3, 6(4)(f) RHI 2011: Schedule 2B, part 2, 5(4)(f) Those responsible for the management of the area (and any contractors engaged by them) to comply with the local and national laws relating to health and safety and the welfare of workers	Company A states: In the forest, Federal and State laws and OSHA apply – plus requirement in contract. In pellet plant, strong systems. Monitoring records.
ROO2015: Schedule 3, 6(4)(g)(i) RHI 2011: Schedule 2B, part 2, 5(4)(g)(i) Those responsible for the management of the area have regard to legal, customary and traditional rights of tenure and land use	Company A states: Federal and State legislation provides good protection and strong recourse if breached. Indian Affairs programs available to contribute to improved circumstances for Tribes. Company B has a formal process for receiving and responding to public inquiries, particularly those that potentially relate to practices that appear to be inconsistent with the SFI requirements. Refers to the Bureau of Indian Affairs list of American Indian Tribes and the locations of their reservations at the following website: http://www.bia.gov/WhoWeAre/RegionalOffices/Eastern/WeAre/Tribes/index.htm
ROO2015: Schedule 3, 6(4)(g)(ii) RHI 2011: Schedule 2B, part 2, 5(4)(g)(ii)	Company A: Mechanisms in the courts, and at State and Federal level, are effective.
Those responsible for the management of the area have regard to mechanisms for resolving grievances and disputes including those relating to tenure and land use rights, forest or land management practices and working conditions	Company B has a formal process for receiving and responding to public inquiries, particularly those that potentially relate to practices that appear to be inconsistent with the SFI requirements.
ROO2015: Schedule 3, 6(4)(g)(iii) RHI 2011: Schedule 2B, part 2, 5(4)(g)(iii) Those responsible for the	Company A: Existing Federal and State legislation, enforced through OSHA covers H&S aspects. Basic labour rights are also covered by Federal and State legislation. No evidence of contravention of ILO conventions. US Department of Labor and State Labor

Woody biomass land criteria ¹²	Evidence provided
management of the area have regard to safeguarding the health and safety and rights of workers	Commissions enforce legislation concerning these aspects. At pellet plant, proper contracts of employment are in place. Company policy.
	No impediment to collective bargaining within the pellet plant.
	Company H&S policies.
	Company B's has conducted a Risk Assessment covering these issues:
	"There is no evidence of child labour or violation of ILO Fundamental Principles and Rights at work taking place in forest areas in the region concerned." US law clearly specifies rights to collective bargaining and freedom of association.
	It quotes, "Program Participants shall take appropriate steps to comply with all applicable social laws at the federal, provincial, state and local levels in the country in which the Program Participant operates."
	"Based upon the risk assessment and evaluation of available information, there is a "low risk" that any wood that is sourced into the facilities is in violation of traditional, civil and indigenous peoples' rights."
	Contract provisions address worker compensation insurance coverage.
	SFI/FSC/PEFC Certificates provide sufficient evidence.
	OSHA records of reportable injuries and rates are publicly available.
	Contracts containing workers compensation insurance are available for inspection.

iii) Defining the Supply Base

Guidance	Evidence provided
1.1. Woody biomass should originate from an independently verifiable legal and sustainable source and appropriate documentation is provided to prove it. The Woodfuel Guidance advises on definition of Supply	Company A provides a map of forests in the supply base; It has PEFC/FSC CoC in place and a fiber study available. Company B states that all biomass sourced originates from the region B in the United States. Electronic and hardcopy maps of the supply base are

maintained as part of demonstrating conformance to the following Standards:
-SFI Fiber Sourcing
-SFI Chain of Custody
-PEFC Chain of Custody and Due Diligence System
-FSC Chain of Custody
-FSC Controlled Wood

iv) Additional Guidance: Supply Chain Management applicable at the Forest Level (UK-TPP requirement only)

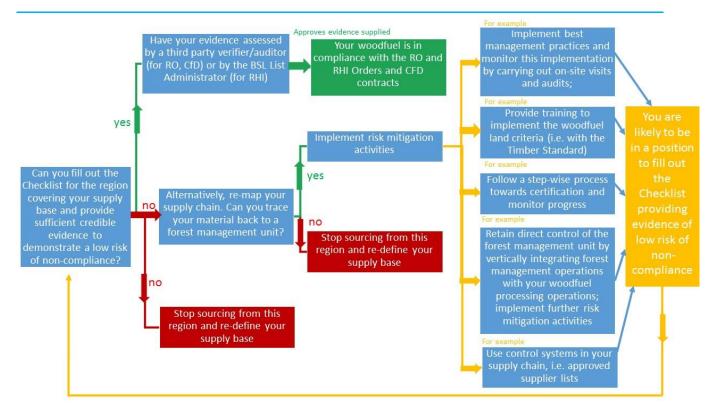
UK-TPP Requirement (optional)	Evidence provided
(Optional)	
1.1 Is the supply chain clearly described and complete from point of supply back to the forest source(s)?	Company A records location / species / product type as part of tract details. FSC/PEFC CoC in place provides 3 rd party check on this aspect.
1.2 Has an adequate mechanism for preventing uncontrolled mixing or substitution been described for each stage in the supply chain?	<u>Company B</u> maintains formal contracts and keeps records of payments and receipts. These documents provide sufficient records of all suppliers.
	1.1 PEFC, SFI and FSC Chain of Custody and Controlled Wood requirements address the need to define the supply base.
1.3 Has information been provided on how the mechanisms in 1.2 are checked/verified and is the approach used adequate to confirm the mechanisms described are in place and functional?	1.2 The mix of feedstock inputs are described as Categories of Origin in the Chain of Custody Procedures.
	Material categories are also identified in the Product Group Lists.
	1.3 PEFC, SFI and FSC Chain of Custody and Controlled Wood requirements address the need to define the supply base.
	1.4 The mix of feedstock inputs are described as Categories of Origin in the Chain of Custody Procedures.
1.4 Is the evidence provided, or available, adequate to confirm the information provided is accurate?	Material categories are also identified in the Product Group Lists.

6. Checklist approach: Case study of a supply chain in a high risk country

For relevant legislation concerning the Woody biomass land criteria refer to the table in Chapter 2.

- 6.1. This biomass generator sources from State X in country Y that is characterised by a high corruption perception index and poor implementation and enforcement of legislation and regulation as highlighted in numerous scientific papers and NGO reports. Consequently, the generator cannot rely on legislation and regulation and its implementation as evidence of meeting the woody biomass land criteria nor conclude that there is low risk of non-compliance with these criteria.
- 6.2. The generator takes a more proactive role to ensure compliance and mitigate risk by operating a vertically integrated operation and implementing comprehensive management systems, through a combination of directly managed and contracted forest operation. The management systems include extensive internal audit and training functions. The generator has evidence that these systems are adequate to ensure the biomass is from 'legal and sustainable' sources and that they are properly implemented.
- 6.3. The generator had been sourcing sawdust from a (currently) uncertified sawmill which takes in a proportion of FSC certified logs but also uncertified logs. The sawmill has no systems in place to separate the sawdust which originates from certified sources with that from uncertified sources nor has it any controls in place to prevent mixing or substitution. Consequently, the generator identified this source of saw dust as high risk for non-compliance with the woody biomass land criteria and has slightly changed his supply base by no longer accepting sawdust from this supplier to mitigate any risk. The sawmill however started to work towards achieving its own certification so that it can sell the sawdust with a certification claim.
- 6.4. Where the biomass operation harvests from its own forest holding it implements a management system which it has based on a voluntary certification scheme. This requires a dedicated in-house forest management resource.
- 6.5. Where inputs are sourced from third parties the company maintains an approved supplier list which includes screening against woody biomass land criteria. Commercial contracts with suppliers include woody biomass land criteria. These conditions include implementation of best management practices and monitoring and audit by the generator. The generator also provides support and training in implementing the woody biomass land criteria to these suppliers.
- 6.6. Below flow chart clarifies the approach that should be taken if you are sourcing from a region where low risk of non-compliance cannot be shown.

Flow diagram for sourcing from a region where low risk of non-compliance cannot be shown:



7. Where can I get more help?

- 7.1. The Renewable Heat Incentive Scheme Regulations and Renewables Obligation Orders can be found on the government legislation website.
- 7.2. Woodfuel Mass Balance and Consignment guidance: This document provides guidance on implementing the mass balance approach and clarification on the concept of 'consignment' in order to comply with RO and RHI Orders and CfD contracts requirements.
- 7.3. Risk based regional assessment: a checklist approach: this document provides guidance on the Biomass Category B risk based regional approach.
- 7.4. <u>Checklist for Regional Supply Base Evaluation</u>: The checklist for regional supply base evaluation helps woody biomass buyers and suppliers provide evidence for compliance with the woody biomass land criteria without the use of certification.
- 7.5. Timber Standard for Heat & Electricity: This document sets out the government's intention on sustainable woody biomass. The sustainability criteria (S1-10) set out in the Timber Standard have subsequently been incorporated into the Renewables Obligation Order 2015, the Renewable Heat Incentive Regulations 2011 (as amended) and CfD contracts. It is the legislation which must be complied with, but this document can give an insight into the approach.
- 7.6. **The BSL Helpdesk** provides advice and support to suppliers and participants of the Renewable Heat Incentive. BSL provide guidance and information about the following:
 - How to comply with meeting the GHG criteria
 - Defining if you are a producer, trader, producer-trader or self-supplier and what your requirements are
 - Requirements applicable to BSL mark branding guidelines
 - Technical queries on woody biomass from suppliers of BSL registered fuel (ie moisture content, size, weight, nature of raw material/fuel, measuring volumes of raw material/fuel)

Please note that the BSL Helpdesk **cannot** provide information and advice about application processes for incentive schemes or policy and legislation queries.

Web: http://biomass-suppliers-list.service.gov.uk/contact-us

Email: bslhelpdesk@gemserv.com

Tel: +44 (0)20 7090 7769 (Mon-Fri 9am – 5pm)

Further information on the BSL can be found here.

7.7. **Ofgem** can help answer enquiries regarding the RO scheme and RHI (Domestic and Non-Domestic) application processes. Ofgem also provides advice on enquiries regarding fuel classification.

Web: www.ofgem.gov.uk

For Renewables Obligation (RO):

Email: renewable@ofgem.gov.uk

Tel: 020 7901 7310

For Domestic RHI Applicants:

Email: domesticRHI@ofgem.gov.uk

Tel: 0300 003 0744 (Mon to Fri 8am to 7pm)

For Non-Domestic RHI Applicants:

Email: rhi.enquiry@ofgem.gov.uk

Tel: 0845 200 2122 (Mon to Thurs 9am-5pm, and Fri 9am-4.30pm)

For CfD:

Web: https://lowcarboncontracts.uk/contact-us

- 7.8. The <u>Forestry Commission</u> provides information on management plans, felling licences and sustainable forest management practices. The <u>UK Forestry Standard (UKFS)</u> is the reference standard for sustainable forest management in the UK. The UKFS, supported by its series of Guidelines, outlines the context for forestry in the UK, sets out the approach of the UK governments to sustainable forest management, defines standards and requirements, and provides a basis for regulation and monitoring.
- 7.9. The National Measurement and Regulation Office (NMRO) answers enquiries related to compliance with the <u>EU Timber Regulation (EUTR)</u>. Click <u>here</u> for the official NMRO Enforcement enquiry form.

8. Glossary

Approved schemes Independent certification schemes which have been benchmarked

as meeting the woody biomass land criteria set out in the RO, RHI and CfD contracts. Evidence from these approved schemes are

considered as Biomass Category A evidence

Arboricultural residues

Material from woody plants and trees planted for landscape or amenity value that are removed as part of tree surgery usually in gardens, parks or other populated settings, and the verges of roads

and railways. These residues are deemed sustainable

Best Management Practices

Best Management Practices are voluntary conservation practices

designed to provide a means of preventing or minimizing

sediments and other nonpoint source pollutants on managed forest

lands from entering adjacent water bodies. (Source: Texas

A&M/Texas Forest Service Website)

Biomass Category A (Biomass Category A) evidence Evidence provided by approved schemes which have been benchmarked against the woody biomass land criteria in the RO, RHI and CfD contracts (see 'approved schemes')

Biomass Category B (Biomass Category B) bespoke evidence All forms of credible evidence (other than from approved schemes) that indicate compliance with the legal and sustainability requirements

Biomass Suppliers List (BSL) List of suppliers of biomass who have been accredited as demonstrating that their fuel meets the sustainability criteria required under the RHI.

Bureau of Indian Affairs An agency of the <u>federal government of the United States</u> within the <u>US Department of the Interior</u> responsible for the administration and management of 55,700,000 acres (225,000 km2) of land held <u>in trust</u> by the United States for <u>Native Americans in the United States</u>, <u>Native American Tribes</u> and <u>Alaska Natives</u>

Chain of custody (CoC)

The ability to trace a product from its point of origin through the supply chain to end product

CITES

Convention on International Trade in Endangered Species of Wild Fauna and Flora is an international agreement between governments. Its aim is to ensure that international trade in specimens of wild animals and plants does not threaten their

survival.

CITES Species

Species of animals and plants listed as protected under CITES

Consignment

Ofgem have set out <u>guidance</u> on what constitutes a consignment. Each consignment should constitute the *same* characteristics in terms of:

- Feedstock type¹³
- Biomass form (solid biomass only)
- Country of origin¹⁴
- Classification of the fuel (residue, product etc.)
- Compliance with woody biomass land criteria
- Compliance with GHG criteria

Controlled Material certified as either FSC Controlled Wood or PEFC

Controlled sources

CfD Contract for Difference

EPA US Environmental Protection Agency

EU Timber Regulation No 995/2010 (EUTR) European Union legislation prohibiting the placement of illegally harvested timber or their products on European markets.

Guidance found here

FLEGT Forest Law Enforcement, Governance and Trade; The EU's

FLEGT Action Plan was established in 2003 and aims to reduce illegal logging by strengthening sustainable and legal forest

management, improving governance and promoting trade in legally

produced timber

FIA USDA Forest Service Forest Inventory Analysis

FSC Forest Stewardship Council; is a voluntary, international forest

certification scheme who sets standards for sustainable forest management. At time of writing it is an approved scheme.

G1 and G2 Species The conservation status of a group of organisms (for instance, a

species) either critically imperilled (G1), imperilled (G2)

¹³ This is to ensure that different biomass fuels are not grouped together, e.g. wood cannot be considered the same as sunflower pellets or rapeseed oil cannot be considered the same as used cooking oil.

¹⁴ UK considered as a single country of origin

Generator UK power and heat supplier operating under the RO and CfD

ISAE 3000 International Standard on Assurance Engagements 3000. The

revised standard is now in force and should be used for assurance

engagements conducted after 15th December 2015.

Integrated Pest Management (IPM)

An effective and environmentally sensitive approach to pest management that relies on a combination of practices with available pest control methods, to manage pest damage by the most economical means, and with the least possible hazard to people, property, and the environment. (Source: US Environmental

Protection Agency)

ILO International Labour Organization

ILO Convention Legally binding international labour treaties that may be ratified by

member countries which commit themselves to applying the convention in national law and practice and reporting on its

application at regular intervals (Source: ILO website)

Land criteria Land criteria refer to the sustainability requirements that must be

met for biomass to receive government subsidy. There are different types of land criteria depending on the type of biomass. This document provide guidance primarily on complying with the woody biomass land criteria, i.e. as set out in the sustainable source definition in the RO Order and the RHI Regulations and within the CfD contracts, including compliance with the 70/30

threshold.

'Legal and sustainable'

Biomass which complies with both the definition of legal source and sustainable source (see legal source and sustainable source)

'Legal only' Biomass originating from a legal source

Legal Source Woody biomass which is in conformance to EU Timber Regulation

(EUTR) No. 995/2010

Mass Balance Approach (MBA) A system which requires that, at each step in the supply chain, parties can only use/sell biomass with the same sustainability characteristics and in the same volume as the biomass they took in originally, taking account of any conversion factors or losses in production, less any biomass they have recorded as being used or sold previously.

Mixed Claim A mixture of woody biomass from a BSL supplier to a generator

with a portion that is in full compliance with the Biomass Category A evidence and the other portion considered to meet the definition of 'legal only' source

Node A node in the supply chain refers to any entity who legally owns the

woody biomass at some stage in the supply chain

Office of Gas and Electricity Markets

(OfGEM)

A non-ministerial government department and an independent National Regulatory Authority that regulates all gas and electricity

markets in the UK

Operator See "Generator"

OSHA US Occupational Safety and Health Administration

Participant Installations who report to RHI

PEFC Programme for the Endorsement of Forest Certification; is a

voluntary, international forest certification scheme that sets

standards for sustainable forest management. At time of writing it is

an approved scheme.

RHI Renewable Heat Incentive

RHI 2011 RHI 2011 is used as shorthand above for Renewable Heat

Incentive Scheme Regulations 2011 (as amended)

RO Renewables Obligation

ROO Renewables Obligation Order

ROO2015 "ROO2015" is used a shorthand for the Renewables Obligation

Order 2015 (England and Wales), the Renewables Obligation (Scotland) Order 2009 and the Renewables Obligation (Northern Ireland) Order 2009. The three Renewables Obligation Orders

have equivalent sustainability requirements.

ROC Renewable Obligation Certificate

SBP Sustainable Biomass Partnership is a biomass sustainability

certification scheme set up by industry which sets standards for sustainable forest management. At time of writing it is an approved

scheme.

Self-supplier RHI participants can be defined as a self-supplier if their installation

is less than 1MWth capacity and if they source biomass (which they have the legal right to source, through ownership, rental or other relevant arrangement) from within 50 miles of where the eligible biomass plant is located or from waste wood obtained from

where it first became waste.

SFI Sustainable Forestry Initiative® is a US-based, forest certification

standard and program of SFI Inc., a non-profit organization

operating in North America

Supplier Entity which supplies biomass to the generator

Supply Base The area from which raw material and biomass originates

Sustainable Forest

Management

Forest management practices, independently verified in conformance to Biomass Category A or Category B Bespoke

Evidence.

Sustainable source A source of biomass that originates from a forest which is managed

in accordance with a definition of sustainable that meets the land

criteria requirements in the RO, RHI, and CfD.

Threshold, 70/30 Generators and suppliers must ensure that a minimum of 70% of

the woody biomass reported to Ofgem is from a 'legal and sustainable' source with the balance from a 'legal only' source.

Traceability See Chain of Custody

UKFS The UK Forestry Standard

UK-TPP United Kingdom Government's Timber Procurement Policy

Virgin Wood Wood and other products which have not have a previous use (i.e.

aren't recycled/reused/waste), includes residues such as bark and sawdust. Material should not have had chemical treatments or

finishes applied.

Waste "Waste" has the meaning given to it in Article 3(1) of Directive

2008/98/EC of the European Parliament and of the Council on waste but does not include gas derived from landfill sites or gas produced from the treatment of sewage. Waste wood may include wood which has previously been used for some other purpose; e.g.

recycled construction material, wood pallets, wood decking.

Woody biomass or

woodfuel

Solid fuel that is wood or derived from wood

Woody biomass land

criteria

The sustainability requirements set out in the RO Order and RHI Regulations and CfD contracts which relate to biomass from woody

feedstocks. See land criteria above.