

# Supply Base Report Alstrup Skovservice ApS

## First Surveillance Audit

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## Completed in Accordance with the Supply Base Report Template Version 1.2

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### *Document history*

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# 1 Overview

Name of the producer: Alstrup Skovservice ApS

Address of the producer: Egerisvej 5, Vorgod-Barde, 6920 Videbæk

Geographic position: 56.077940, 8.705976

Primary contact: Gert Alstrup

Company website: [www.alstrup-skovservice.dk](http://www.alstrup-skovservice.dk)

Date report finalised: 16/Mar/2018

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Certification company: NEPCon

Translation in English: Available

SBP Standard(s) used: Standard 1 version 1.0, Standard 2 version 1.0, Standard 4 Version 1.0, Standard 5 Version 1.0

Weblink to Standard(s) used: <https://sbp-cert.org/documents>

SBP Endorsed Regional Risk Assessment: RRA Denmark

Weblink to SBE on Company website: [http://alstrup-skovservice.dk/flisforsyningsrapport\\_alstrup\\_skovservice.pdf](http://alstrup-skovservice.dk/flisforsyningsrapport_alstrup_skovservice.pdf)

Indicate how the current evaluation fits within the cycle of Supply Base Evaluations				
Main (Initial) Evaluation	First Surveillance	Second Surveillance	Third Surveillance	Fourth Surveillance
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## 2 Description of the supply base

### 2.1 General description

#### **General description of Danish forests and forestry**

Forests cover approx. 620,000 ha in Denmark, corresponding to approx. 14.4% of the country's total area. This area is expected to increase over time. Total standing timber in Danish forests is 130 million m<sup>3</sup>.

Standing timber in the forests has been increasing rapidly from the 2000 statement until today. This is a result of the steadily increasing forest area and probably an increase in standing timber per hectare.

Generally, Danish forests include a wide variety of wood species of which the most common species are: Norway spruce 15%, beech 14% and oak 10%. The numbers for the other wood species are: pine 11%, silver spruce 6%, Nordmann fir 5%, noble fir 2%, other fir species 10%, Sycamore maple 4%, birch 7%, ash 3% and other broadleaves 9%. In addition to this, unstocked areas are 4%. Broadleaves make up 47 per cent of the total wooded area whereas conifers make up 49 per cent. The rest is unstocked areas and areas where a particular wood species could not be determined. None of the wood species belong to the CITES or IUCN species.

Approx. 2000 species are listed on the Danish Red List, and many of these species are related to forests, old forests in particular. Areas in which one or more red list species have been identified are often registered as Natura 2000 areas, protected by the Danish Forest Act and/or the Danish Nature Protection Act.

The estimated total number of forest estates in Denmark is 24,000. 89% of the total number of forest estates has a size between 0.5 and 20 ha.

Most of the forest area is privately owned, either by individuals (59%) or by companies (10%) and foundations (6%). The Danish state forests make up 19% of the total forest area, while the area owned by municipalities and public institutions is 6%. This means that the Danish forest structure includes many private owners with forest areas of less than 20 ha.

Atypically, Danish forestry legislation has no requirements as to how each estate plans forestry, nor does the forest owners have to apply for or report cutting in their forests.

Danish forest owners are well-organised in various local and national associations. Dansk Skovforening (Danish Forest Association) is the trade organisation of private forest owners.

Moreover, up to 6,000 owners of small forests are organised in local forest owner associations which help owners with advice and management of their forests and are also involved in forest policy. Similarly, many private forest owners also work with HedeDanmark and other forestry consultancies.

Two certification options exist in forest management: PEFC and FSC. The areas owned by the Danish states have been certified according to both standards. In private and municipal forests, some 56,000 ha have been certified according to PE and 20,161 ha according to FSC.

Total income in the production of forest products in Denmark is approx. DKK 1 billion. The sale of energy wood amounted to DKK 300 million in 2015.

### General description of Danish windbreaks

Planted windbreaks are a tradition in Denmark. The systematic planting of windbreaks started in the 1930s. The first major windbreak planting guilds were set up in 1967 and windbreaks with mainly 3 and 6 rows of broadleaves were introduced. Since then, various subsidies have existed to establish windbreaks and most have been established with subsidies. Today, Denmark is estimated to have some 80,000 km of windbreaks.

Windbreaks planted with subsidies must be maintained and cannot be removed.

### Description of the supply base

Alstrup Skovservice's supply base is Danish forests, windbreaks, nature areas and urban plantations, all over Denmark, mainly in Mid-Jutland.



Figure 1 Supply base

Alstrup Skovservice is a forest contractor that produces and sells wood chip. Wood chip production is approx. 35,000 - 45,000 tonnes a year, approx. 50% of the wood chip is produced in areas outside forests, mainly windbreaks and small plantations and in connection with nature projects. The base also includes clearing of trees and shrubs in connection with developments and expansion of infrastructure in Denmark.

In the forests, the base is thinning in conifers and roundwood from conifer deforestation while the rest is branches and tops from both broadleaves and conifers.

### Description of jobs

#### Thinnings:

In windbreaks, the base mainly consists of the removal of nurse trees and pollarding of shrubs but in order to keep the sheltering effect of the windbreak. The work is carried out using feller bunchers and feller forwarders. In the forest, thinnings are carried out by feller bunching in connection with the running of tracks and thinning of younger standing crop. The subsequent chipping is carried out using an off-road chipper or a truck chipper.

**Tree tops:**

Chipping of tops and branches from conifers and broadleaves in connection with the deforestation of middle-aged or old broadleaves and conifers. Tops are often interconnected in stacks and chipped by the roadside.

**Round timber:**

Produced as a by-product from the felling of conifers where timber is also produced. The chip utilised timber of a low quality which cannot be used for products of high quality, such as timber. Felled using a harvester, forwarded to a solid road, chipped by the roadside or transported to a storage yard where the chipping is carried out.

**Clearings:**

Carried out by manual felling and subsequent forwarding or using a feller forwarder. Wood is often interconnected in stacks and chipped by the roadside. Clearing of tree regeneration in connection with Nature projects carried out in dialogue or in direct collaboration with the specific authorities.

Table 1 Distribution of raw material input in %

	Conifers	Broadleaves	Mixed
Controlled feedstock			
SBP-Compliant primary	60	30	10
SBP-Compliant Secondary			
SBP-Compliant Tertiary			
SBP-non-compliant			

**Sources:**

Nord-Larsen, Thomas et al, *Skove og Plantager 2014*, Skov og Landskab, 2014

PEFC Denmark, <http://www.pefc.dk/bliv-certificeret/skovcertificering>

FSC Denmark, <https://dk.fsc.org/dk-dk/hvad-er-fsc/fsc-i-danske-tal>

Legal information: <https://www.retsinformation.dk/eli/ft/198812K00030>

Hedges to the benefit of animals and plants: <https://jaegernesmagasin.dk/wp-content/uploads/Levende-hegn-til-gavn-for-dyr-og-planter.pdf>

Red list species: <http://bios.au.dk/videnudveksling/til-myndigheder-og-saerligt-interesserede/redlistframe/artsgrupper/>

## 2.2 Actions taken to promote certification amongst feedstock supplier

No measures have been launched to further certification at the forests where raw materials are felled.



## 2.3 Final harvest sampling programme

Alstrup Skovservice also focuses on ensuring a financially sound result for our customers working in the forest. That's why, high value products primarily and only biomass will be produced when felling standings of more than 40 years. The price difference on energy wood for biomass and wood for timber, logs or packing wood means that it is not financially sound to produce energy wood if a higher value product may be produced. When wood from clear fellings of more than 40 years ends up in biomass, part of the wood does not meet the quality requirements for e.g. timber. The reasons may be rot, damage, warping, splits, windfall, etc. Table 2 includes data from 5 randomly selected felling projects in 2016. Data is distributed among the effect of various assortments, Short Timber, Packaging, Energy, Tree Tops, Whole Trees (whole trees for chipping).

*Table 2 Final harvest sampling. Data from 5 randomly selected felling projects in 2017. Quantity of round timber for energy wood from felling of stands of more than 40 years is approx. 13%.*

Summary			
Period		1.12.2016-01.04.2017	
<b>Effect</b>		<b>Quantity</b>	<b>%</b>
SHORT TIMBER		522.0	28.99
MIX		380.5	21.13
PACKAGING		0	0
ENERGY		248.1	13.78
TREE TOPS		100.0	5.55
WHOLE TREES		550.0	30.59
TOTAL		1800.6	100

## 2.4 Flow diagram of feedstock inputs showing feedstock type [optional]

*Insert flow diagram.*

## 2.5 Quantification of Alstrup Skovservice's supply base

### Supply base

- a. Supply base area (ha): 620.500 ha of forest
- b. Tenure by type (ha): 430.509 ha privately owned, 27.696 owned by foundations, 150.298 ha public owned, 11.997 ha unknown.
- c. Forest by type (ha): Temperate
- d. Forest by management type (ha): 483.844 ha is plantation or planted forest, 100.584 ha natural forest, including protective forest and historical management types, 36.072 ha with other management types or unknown.
- e. Certified forest by scheme (ha): 265.047 ha PEFC forest and 213.976 ha FSC-certified forest. Note that many forests hold both FSC and PEFC certificates.

## Feedstock

The total amount produced feedstock is presented in bands, so that competitors and customers can not speculate in the amount of tasks and production capacity.

- f. Total produced quantity: 35,000 - 45,000 T
- g. Volume of primary feedstock: 35,000 - 45,000 T
- h. SBP approved certification plan: 0 %
- i. Wood species included:

*Table 3 List of wood species*

Danish	English	Latin
Ahorn	Sycamore	Acer pseudoplatanus
Ask	Ash	Fraxinus excelsior
Dunbirk	White birch	Betula pubescens
Vortebirk	Silver birch	Betula pendula
Bjergfyr	Mountain pine	Pinus mugo
Bævreasp	Aspen	Populus tremula
Bøg	Beech	Fagus sylvatica.
Contortafyr	Lodgepole pine	Pinus contorta
Cypres	Lawson cypress	Chamaecyparis lawsoniana
Douglas	Douglas fir	Pseudotsuga menziesii
Stilkeg	Common Oak	Quercus robur
Vintereg	Sessile Oak	Quercus petraea
Elm	Mountain elm	U/mus glabra
Ene	Juniper	Juniperus communis
Grandis	Grand fir	Abies grandis
Hestekastanie	Horse chestnut	Aesculus hippocastanum
Hvidgran	White spruce	Picea glauca
Lind	Common lime	Tilia cordata
Lærk	European larch	Larix decidua
Lærk	Japanese larch	Larix leptolepis
Hybridlærk	Dunkeld Larch	Larix eurolepis
Nobilis	Noble fir	Abies procera
Nordmannsgran	Nordmann fir	Abies normanniana
Omorika	Serbian spruce	Picea omorica
Poppel	Poplar	Populus sp.
RØdeg	Northern red oak	Quercus rubra
Rødel	Common alder	Alnus glutinosa
Rødgran	Norway spruce	Picea abies
Sitkagran	Sitka spruce	Picea sitchensis
Skovfyr	Scots pine	Pinus sylvestris
Spidsløn	Maple	Acer platanoides

Taks	Yew	Taxus baccata
Thuja	Western red cedar	Thuja plicata
Tsuga	Hemlock	Tsuga heterophyl/a
Ædelgran	Silver fir	Abies alba
Østrigsk fyr	Austrian pine	Pinus nigra

- j. Quantity from primary forests (untouched forest): 0 T
- k. Specify percentage share from primary forest: N/A
- l. Volume of secondary feedstock: 0%
- m. Volume of tertiary feedstock: 0%

### 3 Requirement for a Supply Base Evaluation

SBE completed	SBE not completed
X	<input type="checkbox"/>

Alstrup Skovservice harvests most of the feedstock in non-certified forests, which means that the supply base must be evaluated.

## 4 Supply Base Evaluation

### 4.1 Scope

The scope of the evaluation covered the entire supply base of Alstrup Skovservice which is considered all existing and potential sources of primary feedstock and their origin. The purpose of SBE is to distinguish the risk level in relation to the indicators described in SBP Standard 1.

The feedstock is divided into the following areas:

1. Primary feedstock from FSC or PEFC certified forests
2. Primary feedstock from forests with a green management plan
3. Primary feedstock from thinnings of conifer stands
4. Primary feedstock from thinnings of first generation forest estates
5. Primary feedstock from forests without a green management plan or certification
6. Primary feedstock from non-forest areas, such as windbreaks, city and park areas, nature projects

Most of the biomass is processed by professionals who have assessed the work areas in accordance with the management system described in the *Entreprenørhåndbogen* (Contractor's Manual). A minor part of the feedstock is produced by affiliated partners. In that connection, the materials are verified according to the supplier verification programme.

### 4.2 Justification

This evaluation is based on the National Risk Assessment for Denmark published in September 2016 which is available from NEPCON. The National Risk Assessment was completed in accordance with SBP Standard no. 1 and the evaluation was completed in accordance with SBP standard no. 2.

All items in Annex 1 have been answered and the risks have been assessed in connection with the preparation of the National Risk Assessment. Information has been gathered from applicable Danish legislation, instructions and interviews with the relevant persons.

Based on the recommendations in the National Risk Assessment for measures to reduce the risk and analyse the company's procedures, useful measures to reduce the risk have been found to ensure a low risk for all indicators in connection with the production of primary feedstock.

Alstrup Skovservice is aware of the fact that changes in the National Risk Assessment may occur and is willing to adapt the SBE if this should happen.

### 4.3 Result of the Risk Assessment

The Risk Assessment concludes that the risk is low in relation to all criteria except from the following criteria where a 'specified risk' has been identified and proposals have been prepared for possible measures to reduce the risk: Criteria 2.1.1, 2.1.2, 2.2.3 and 2.2.4. Proposals for measures to reduce the risk appear from Annex 1.

Table 4 Individual indicators with a "specified risk " in the National Risk Assessment

2.1.1	Forests and other areas with high conservation values in the Supply Base are identified and mapped.
2.1.2	Potential threats to forests and other areas with high conservation values from forest management activities are identified and addressed.
2.2.3	Key ecosystems and habitats are conserved or set aside in their natural state (CPET S8b).
2.2.4	Biodiversity is protected (CPET S5b).

Based on the National Risk Assessment, Alstrup Skovservice concluded that the supply base can be divided into the following sub-scopes:

1. Primary feedstock from FSC or PEFC certified forests
2. Primary feedstock from forests with a green management plan
3. Primary feedstock from thinnings of conifer stands
4. Primary feedstock from thinnings of first generation forest estates
5. Primary feedstock from forests without a green management plan or certification
6. Primary feedstock from non-forest areas, such as windbreaks, city and park areas, nature projects

## 4.4 Result of supplier verification programme

As described in section 8, Alstrup Skovservice has no need for a supplier verification programme. Alstrup Skovservice will only in special cases purchase biomass from other suppliers, and if so, Alstrup Skovservice will handle risk assessment and minimise the risk, if any.

## 4.5 Conclusion

When reviewing and revising the procedures of Alstrup Skovservice based on the National Risk Assessment, it is estimated that the company ensures that the biomass complies with the SBP certification. Gert Alstrup who handles job planning, identification of key biotopes and project mapping, has a wide experience in working in the forest and making considerations for nature worth conserving. The company is aware of the fact that if jobs have to be carried out in areas with a specific risk, it may be necessary to have other qualified persons, such as biologists or foresters, help with the identification of key biotopes. During the startup phase, it is important to integrate regulations and adaptations when the company has become more familiar with the new standards and procedures.

## 5 Supply Base Evaluation Process

The National Risk Assessment has been completed by NEPCon at the initiative of Dansk Energi, Dansk Fjernvarme, Skovdyrkerforeningen, Danish Forest Association, DM&E and HedeDanmark.

As it appears from the National Risk Assessment for Denmark, a low risk has been identified for all indicators, apart from the following indicators where a 'specified risk' has been identified: 2.1.1, 2.1.2, 2.2.3, 2.2.4.

In order to minimise the risk of processing biomass, Alstrup Skovservice has prepared a set of procedures that complies with the due diligence requirements of the standard. The procedures are available in the *Entreprenørhåndbogen* (Contractor's Manual).

Alstrup Skovservice has used both internal and external resources for the work with SBE. SBE has been prepared with SBE's staff who has a wide experience in biomass production.

Alstrup Skovservice is owned by Gert Alstrup, who has 35 years of experience with forest and nature management. Independent forestry contractor since 1985. The first years with machine felling for Det Danske Hedeselskab and for Stats Skovene - now the Danish Nature Agency. After the storm of 2005, the company was expanded to be able to handle more jobs within felling, transport, piling of logs and trading in fresh wood and wood chip. In the last five years, Alstrup Skovservice has had more than 5 full-time employees that have produced according to FSC and PEFC certifications on the Danish Nature Agency's areas.

Alstrup Skovservice is used to handling nature projects in Clause 3 and Natura 2000 areas.

If Alstrup Skovservice is in doubt, assistance is acquired from an external forester.

Machine operators at Alstrup Skovservice have a high level of skills with many years' work with production of feedstock in Danish state forests.

Alstrup Skovservice has used an external consultant from DM&E who has approx. 10 years' experience in forest certification and forest management for the work of adapting work processes and gathering additional data.

## 6 Stakeholder consultation

The consultation phase ran for a period of 30 days from February 2016 to March 2016. The Danish version of SBR was sent by e-mail to the following stakeholders:

Danmarks Naturfredningsforening (Danish Society for Nature Conservation)	Nora Skjernaa Hansen	nsh@dn.dk
FSC Danmark	Sofie Tind Nielsen	sofie@fsc.dk
Verdens Skove	Jakob Ryding	jr@verdensskove.org
WWF (World Wildlife Foundation)	Bo Normander	b.normander@wwf.dk
Copenhagen University	Vivian Kvist Johansen	vkj@ign.ku.dk
PEFC Danmark	Morten Thorøe	mt@pefc.dk
Dansk Energi	Kristine van het Erve Grunnet	keg@danskenergi.dk
Dansk Fjernvarme	Kate Wieck-Hansen	kwh@danskfjernvarme.dk
Dansk Skovforening (Danish Forest Association)	Marie-Louise Bretner	mlb@skovforeningen.dk
Energistyrelsen (Danish Energy Agency)	Lars Martin Jensen	lmj@ens.dk
Dong Energy	Peter K Kristensen	pekkr@dongenergy.dk
Friluftsrådet (National Federation of Outdoor Recreation)	Thorbjørn Eriksen	toe@friluftsradet.dk
BAT Kartellet	Gunde Odgaard	gunde.odgaard@batkartellet.dk
Naturstyrelsen (Danish Nature Agency)	Niels Bølling	niboe@nst.dk
NOVOPAN A/S	Jette Wulff	j.wulff@kronospan-dk.dk
Troldtekt A/S	Orla Jepsen	oje@troldtekt.dk
Rold Skov Savværk A/S	Henrik Thorlacius-Ussing	htu@lindborg.dk

### 6.1 Response to stakeholder comments

No comments from stakeholders.



## 7 Overview of the initial Assessment of risk

Alstrup Skovservice uses the National Risk Assessment for Denmark, prepared by NEPCON, as a starting point. This risk assessment has been prepared in accordance with the SBP Regional Risk Assessment Procedure Version 1.0, and it is a thorough examination of the relevant risks in a Danish context. See also Annex 1 to this Supply Base Rapport.

As it appears from the National Risk Assessment for Denmark, a low risk has been identified for all indicators, apart from the following indicators where a 'specified risk' has been identified: 2.1.1, 2.1.2, 2.2.3, 2.2.4.

In order to minimise the specified risks, Alstrup Skovservice is working according to its management system, described in the Contractor's Manual. Among other things, the management system describes how Alstrup Skovservice minimises the risk in the areas where there is a risk that the biomass is not sustainable.

Based on the National Risk Assessment, the Supply Base of Alstrup Skovservice is divided into 6 sub-scopes, described in section 2.1.1 in the National Risk Assessment for Denmark:

1. Primary feedstock from FSC or PEFC certified forests
2. Primary feedstock from forests with a green management plan
3. Primary feedstock from thinnings of conifer stands
4. Primary feedstock from thinnings of first generation forest estates
5. Primary feedstock from forests without a green management plan or certification
6. Primary feedstock from non-forest areas, such as windbreaks, city and park areas, nature projects

Table 5 . Sub-scope: Primary feedstock from FSC or PEFC certified forests. Overview of the result of the risk assessment of all indicators

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
1.1.1		X	
1.1.2		X	
1.1.3		X	
1.2.1		X	
1.3.1		X	
1.4.1		X	
1.5.1		X	
1.6.1		X	
2.1.1		X	
2.1.2		X	
2.1.3		X	
2.2.1		X	
2.2.2		X	
2.2.3		X	
2.2.4		X	
2.2.5		X	
2.2.6		X	
2.2.7		X	
2.2.8		X	
2.2.9		X	

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
2.3.1		X	
2.3.2		X	
2.3.3		X	
2.4.1		X	
2.4.2		X	
2.4.3		X	
2.5.1		X	
2.5.2		X	
2.6.1		X	
2.7.1		X	
2.7.2		X	
2.7.3		X	
2.7.4		X	
2.7.5		X	
2.8.1		X	
2.9.1		X	
2.9.2		X	
2.10.1		X	

Table 6 Sub-scope: Primary feedstock from forests with a green management plan. Overview of the result of the risk assessment of all indicators.

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
1.1.1		x	
1.1.2		x	
1.1.3		x	
1.2.1		x	
1.3.1		x	
1.4.1		x	
1.5.1		x	
1.6.1		x	
2.1.1		x	
2.1.2	x		
2.1.3		x	
2.2.1		x	
2.2.2		x	
2.2.3	x		
2.2.4	x		
2.2.5		x	
2.2.6		x	
2.2.7		x	
2.2.8		x	
2.2.9		x	

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
2.3.1		x	
2.3.2		x	
2.3.3		x	
2.4.1		X	
2.4.2		X	
2.4.3		X	
2.5.1		X	
2.5.2		X	
2.6.1		X	
2.7.1		X	
2.7.2		X	
2.7.3		X	
2.7.4		X	
2.7.5		X	
2.8.1		X	
2.9.1		X	
2.9.2		X	
2.10.1		X	

Table 7 Sub-scope: Primary feedstock from thinnings of conifer stands. Overview of the result of the risk assessment of all indicators.

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
1.1.1		x	
1.1.2		x	
1.1.3		x	
1.2.1		x	
1.3.1		x	
1.4.1		x	
1.5.1		x	
1.6.1		x	
2.1.1		X	
2.1.2		X	
2.1.3		X	
2.2.1		X	
2.2.2		X	
2.2.3		X	
2.2.4		X	
2.2.5		X	
2.2.6		x	
2.2.7		x	
2.2.8		x	
2.2.9		x	

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
2.3.1		x	
2.3.2		x	
2.3.3		x	
2.4.1		X	
2.4.2		X	
2.4.3		X	
2.5.1		X	
2.5.2		X	
2.6.1		X	
2.7.1		X	
2.7.2		X	
2.7.3		X	
2.7.4		X	
2.7.5		X	
2.8.1		X	
2.9.1		X	
2.9.2		X	
2.10.1		X	

Table 8 Sub-scope: Primary feedstock from thinnings of first generation forest estates. Overview of the result of the risk assessment of all indicators.

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
1.1.1		x	
1.1.2		x	
1.1.3		x	
1.2.1		x	
1.3.1		x	
1.4.1		x	
1.5.1		x	
1.6.1		x	
2.1.1		x	
2.1.2		x	
2.1.3		x	
2.2.1		x	
2.2.2		x	
2.2.3		x	
2.2.4		X	
2.2.5		x	
2.2.6		x	
2.2.7		x	
2.2.8		x	
2.2.9		x	

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
2.3.1		x	
2.3.2		x	
2.3.3		x	
2.4.1		X	
2.4.2		X	
2.4.3		X	
2.5.1		X	
2.5.2		X	
2.6.1		X	
2.7.1		X	
2.7.2		X	
2.7.3		X	
2.7.4		X	
2.7.5		X	
2.8.1		X	
2.9.1		X	
2.9.2		X	
2.10.1		X	

Table 9 Sub-scope: Primary feedstock from forests without a green management plan or certification. Overview of the result of the risk assessment of all indicators.

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
1.1.1		x	
1.1.2		x	
1.1.3		x	
1.2.1		x	
1.3.1		x	
1.4.1		x	
1.5.1		x	
1.6.1		x	
2.1.1	x		
2.1.2	x		
2.1.3		x	
2.2.1		x	
2.2.2		x	
2.2.3	x		
2.2.4	x		
2.2.5		x	
2.2.6		x	
2.2.7		x	
2.2.8		x	
2.2.9		x	

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
2.3.1		x	
2.3.2		x	
2.3.3		x	
2.4.1		X	
2.4.2		X	
2.4.3		X	
2.5.1		X	
2.5.2		X	
2.6.1		X	
2.7.1		X	
2.7.2		X	
2.7.3		X	
2.7.4		X	
2.7.5		X	
2.8.1		X	
2.9.1		X	
2.9.2		X	
2.10.1		X	

Table 10 . Sub-scope: Primary feedstock from non-forest areas, such as windbreaks, city and park areas, nature projects. Overview of the result of the risk assessment of all indicators.

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
1.1.1		x	
1.1.2		x	
1.1.3		x	
1.2.1		x	
1.3.1		x	
1.4.1		x	
1.5.1		x	
1.6.1		x	
2.1.1		X	
2.1.2		X	
2.1.3		X	
2.2.1		X	
2.2.2		X	
2.2.3		X	
2.2.4		X	
2.2.5		x	
2.2.6		x	
2.2.7		x	
2.2.8		x	
2.2.9		x	

Indicator	Initial Risk Rating		
	Specified	Low	Unspecified
2.3.1		x	
2.3.2		x	
2.3.3		x	
2.4.1		X	
2.4.2		X	
2.4.3		X	
2.5.1		X	
2.5.2		X	
2.6.1		X	
2.7.1		X	
2.7.2		X	
2.7.3		X	
2.7.4		X	
2.7.5		X	
2.8.1		X	
2.9.1		X	
2.9.2		X	
2.10.1		X	

Based on the National Risk Assessment, Alstrup Skovservice has concluded:

1. Primary feedstock from FSC or PEFC certified forests - **always low risk**
2. Primary feedstock from forests with a green management plan - **specified risk**
3. Primary feedstock from thinnings of conifer stands - **always low risk**
4. Primary feedstock from thinnings of first generation forest estates - **always low risk**
5. Primary feedstock from forests without a green management plan or certification - **specified risk**
6. Primary feedstock from non-forest areas, such as windbreaks, city and park areas, nature projects - **always low risk**



## 8 Supplier verification programme

### 8.1 Description of the supplier verification programme

Alstrup Skovservice handles the entire process for most of the wood chip sold by Alstrup Skovservice. This means customer contact, job planning, job execution as well as the transport and sale of wood chip. Using the management system from the Contractors' Manual, Alstrup Skovservice documents origin, risk assessment and risk reduction, if any.

A minor part of the wood chip is purchased from other forest contractors. This is not a group of supplier from whom wood chip is bought on an ongoing basis. The quantities are often small, and it may be years between various suppliers selling wood chip to Alstrup Skovservice. That's why it makes no sense to prepare a supplier verification programme for Alstrup Skovservice.

The procedure for the purchase of external wood chip will be that Alstrup Skovservice handles the purchase of feedstock from subcontractors as if it was its own project. Alstrup Skovservice handles mapping, risk assessment, area review and minimises risks.

An agreement has been reached for the supply of biomass from a supplier that is "Godkendt Biomasseproducent" and supplies biomass according to the Industry Agreement for Sustainable Biomass (wood pellets and wood chips). Alstrup Skovservice has the right and obligation to check the projects.

Alstrup Skovservice ApS will select samples twice a year in the submitted tasks and physics control projects, as well as assess whether the classification is correct.

The number of samples will be the square root of the number of tasks purchased in the previous period multiplied by 0.6 as a coefficient ( $y = 0.6\sqrt{x}$ ) rounded up to an integer.

If parts of the feedstock are assessed in this process to be non-SBP compliant, it will not be sold with an SBP Claim.

### 8.2 Site visits

There are scheduled field visits in May and November. A sample of the tasks submitted in the previous period will be visited. The sample must ensure that the tasks are classified correctly and performed according to the Alstrup skovservices procedure.

### 8.3 Conclusions from the supplier verification programme

Not available

## 9 Mitigation Measures

### 9.1 Mitigation Measures

#### Introductory remarks:

Alstrup Skovservice is working according to the procedures of the Contractor's Manual, which is laid out to consider the indicators described in the National Risk Assessment. The Contractor's Manual describes how to identify a specific risk and which measures to reduce the risk should be taken before the feedstock can be called SBP compliant. If Alstrup Skovservice is not able to reduce the risk for parts of the biomass, it will not form part of the SBP quantity.

Projects in Alstrup Skovservice are planned, assigned and controlled by Gert Alstrup.

#### Risk assessment

In all new jobs, the areas on which biomass is harvested will be screened according to the following indicators: 2.1.1, 2.1.2, 2.2.3, 2.2.4 where a specified risk has been established. The risk assessment is based on available map material and databases as well as a review of the area before startup. A map and checklist is prepared for each job to ensure that the machine operator is aware of protected or preserved nature/culture. Alstrup Skovservice has implemented the measures to reduced risk from the National Risk Assessment, except from the proposal to share maps with experts or relevant stakeholders.

The risk assessment is divided into six categories.

1. Primary feedstock from FSC or PEFC certified forests - **always low risk**
2. Primary feedstock from forests with a green management plan - **specified risk**
3. Primary feedstock from thinnings of conifer stands - **always low risk**
4. Primary feedstock from thinnings of first generation forest estates - **always low risk**
5. Primary feedstock from forests without a green management plan or certification - **specified risk**
6. Primary feedstock from non-forest areas, such as windbreaks, city and park areas, nature projects - **always low risk**

The risk assessment is carried out by Gert Alstrup. If external assessment is deemed necessary, a forrester/biologist with local knowledge will be used. Gert Alstrup is familiar with identifying key biotopes according to the key biotope type catalogue.

#### Risk handling

Staff carrying out screenings and planning the jobs are familiar with applicable nature and environment legislation. Alstrup Skovservice plans supply activities to minimise the negative effect on ecosystems, biodiversity and areas worth preserving.

Areas where wood chip is harvested must be examined before startup by a physical review and must be mapped according to the procedure below. All procedures are explained in the Contractors' Manual.

A map will be prepared for each wood chip project. If maps have been prepared in connection with certification or a green management plan, these maps must be used in the process in order to ensure HCV areas.

- If the work area is located in a forest, it will be screened according to the checklist in the Contractors' Manual.
- If the job consists of thinning in an afforestation or thinning/clearcut in an even age, even aged conifer stand, screening is done.
  - Through experience gathered with the SBP system and based on the Danish Environmental Protection Agency's Key for mapping of particularly valuable forests, Alstrup skovservice has chosen to mitigate the risk related to clearcuts in even age conifers described in the National Risk Assessment for Denmark in Section 2.1.1. This will be done through implementation of the first steps in the "Danish Environmental Protection Agency's Key for mapping of particularly valuable forests" (see Peter Friis Møller, 2017: [http://mst.dk/media/132958/p25\\_skovnoegle.pdf](http://mst.dk/media/132958/p25_skovnoegle.pdf)). If it is considered at the physical control of an area, that the area has been planted, that it is dominated by non-native species and that the screening has not shown any protected nature. Alstrup Skovservice itself will be able to handle risk management in these stands. This means that all primary feedstock from even age conifers with the above mentioned characteristics will be classified as low risk, both when the feedstock comes from thinnings and clearcuts.
- If the work area is located outside a forest, screening may be omitted. Legality must be ensured.
- Each wood chip project is given a unique case number and address which also appear on the job description, weighing forms and basis of settlement. Ensure traceability.
- Each wood chip project has a Checklist with relevant information. Ensure excellent communication between the various parties in the work process and note down all relevant data which the machine operator needs.

To be able to identify HCV areas during work, all machine operators working with wood chip production in the forest have been trained in "Maskinfærdsel på Naturnære arealer" (Machine traffic in nature areas).

To ensure that SBP projects are properly categorized and that screening is performed according to the procedures, two random projects will be selected for internal control.

## 9.2 Monitoring and outcomes

Increased focus will apply during the first 12 months of jobs with the highest risk of felling activities harming HCV areas. In old forest areas, they will consist mainly of broadleaves. The effect of this measure will be assessed at the next internal audit. However, every tenth project, though at least 5 projects, with a specified risk will be assessed.

## 10 Detailed Findings for indicators

Detailed findings for each Indicator are given in Annex 1.

The RRA for Denmark - [https://sbp-cert.org/docs/SBP-endorsed-RRA-for-Denmark-RRA\\_Jun%2017.pdf](https://sbp-cert.org/docs/SBP-endorsed-RRA-for-Denmark-RRA_Jun%2017.pdf) .

## 11 Review of the report

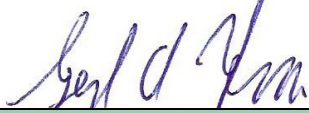
### 11.1 Peer review

The report has been commented by Senior Advisor Kjell Suadicani from the Section for Forest, Nature and Biomass at the Department of Geosciences and Natural Resource Management.

His comments have been included in the final Supply Base Report.

### 11.2 Public or additional reviews

## 12 Approval of Report

Approval of Supply Base Report by senior management			
Report Prepared by:		Company owner	08-02-2017
	Gert Alstrup	Company owner	08-02-2017
The undersigned persons confirm that I/we are members of the organisation's senior management and do hereby affirm that the contents of this evaluation report were duly acknowledged by senior management as being accurate prior to approval and finalisation of the report.			
Report approved by:			
	Name	Title	Date
	Name	Title	Date

## 13 Update

Once a year prior to the external audit, Alstrup Skovservice will carry out self-regulatory control according to the procedure described in the Contractor's Manual. The self-regulatory control will assess:

1. Changes in the supply base. Whether changes have occurred which call for changes to elements of the Supply Base Report.
2. It must be assessed whether the measures taken to reduce the risks are adequate. Every 10<sup>th</sup> project with a specified risk, though at least 5 projects, will be assessed.
3. Substantial changes in the Supply Base

Not yet applicable.

### 13.1 Significant changes in the Supply Base

No changes, the supply base is the same as describe in the first SBR

### 13.2 Effectiveness of previous mitigation measures

The majority of our tasks are in low-risk areas, and we are convinced that our systems to reduce risk work well.

If we work in areas with specified risk, eg §3 areas, the municipality has granted dispensation, and often it is the local municipality that has planned the task and prepared the working instructions.

During this reporting period we have only had few tasks in forest areas with specified risk. Therefore, we have decided that the few tasks with specified risk have been handled and sold as non-SBP-compliant material. This also means that we have not assessed every 10 tasks with specified risk because there have been no tasks to review.

Through internal audit, we have become aware that we should expand our control of tasks. New procedure for controlling risk minimization measures can be found in the contractor's manual, chapter 7.2.

### 13.3 New risk ratings and mitigation measures

Alstrup Skovservice has discovered that Regional Risk Assessment - for Denmark has been approved by SBP on 29 June 2017. Approval of RRA has not led to any changes in SBR or SBE. Alstrup Skovservice has introduced a new procedure for risk assessment and risk management of even aged conifers in terms of clearcuts. If it is considered that the area is clearly planted, it is dominated by non-native species and that the map screening has not shown anything the forest stand will be considered as low risk. Alstrup Skovservice itself be able to handle risk management and will not involve a forester / biologist. Procedure is described in detail in the management system ("entreprenør handbogen").

## 13.4 Actual figures for feedstock over the previous 12 months

The total amount produced feedstock is presented in bands, so that competitors and customers can not speculate in the number of tasks and production capacity.

Total produced quantity:	35,000 - 45,000 T
Volume of primary feedstock:	35,000 - 45,000 T
SBP approved certification plan:	0 %
Wood species included:	see section 2.5
Quantity from primary forests (untouched forest):	0 T
Specify percentage share from primary forest:	N/A
Volume of secondary feedstock:	0%
Volume of tertiary feedstock:	0%

## 13.5 Projected figures for feedstock over the next 12 months

The total amount produced feedstock is presented in bands, so that competitors and customers can not speculate in the number of tasks and production capacity.

Total produced quantity:	35,000 - 45,000 T
Volume of primary feedstock:	35,000 - 45,000 T
SBP approved certification plan:	0 %
Wood species included:	see section 2.5
Quantity from primary forests (untouched forest):	0 T
Specify percentage share from primary forest:	N/A
Volume of secondary feedstock:	0%
Volume of tertiary feedstock:	0%



# Annex 1: Detailed Findings for Supply Base Evaluation Indicators

	Indicator
1.1.1	The Supply Base is defined and mapped.
Finding	<p>This SBP Regional Risk Assessment covers only Primary Feedstock from all of Denmark, but not including Greenland or the Faroe Islands.</p> <p>The biomass Supply Base includes the main Primary Feedstock suppliers in Denmark: The Danish Nature Agency (State Forests), municipal and other public forest owners, independent private forest owners, and cooperative societies through which some private forest owners are amalgamated.</p> <p>Sawmills and other timber industry entities, importing feedstock and producing feedstock during timber processing, are sources of Secondary Feedstock. These secondary and tertiary sources of feedstock are excluded from this Regional Risk Assessment, since the origin of the material cannot be reliably documented.</p> <p>The main suppliers of Primary Feedstock material are State Forests, private forest owners and other local timber industry entities. These industries can also use material from imports; in which case the imported material could be mixed (during processing or storage) with local wood material. (See more details under Indicator 1.1.2.)</p> <p>In regards to the Supply Base and mapping on the forest level, the main planning document – which serves as a description of the Supply Base in both public and private forests – is the forest management plan. Instructions on forest management planning define the requirements for data and maps to be included in the management plan.</p> <p>A forest management plan is not a legal requirement in Denmark, and some smaller forest estates do not have a detailed management plan, nor sufficient forest maps. However, following several rounds of subsidies, many estates that would not otherwise have forest management plans or forest maps, now have them.</p> <p>For forest or non-forest areas where forest maps are not available, it will be the obligation of the Biomass Producer (BP) to ensure that maps of sufficient scale and quality are available.</p> <p>It is worth mentioning that all State Forests are certified according to FSC and PEFC Forest Management and Chain of Custody standards in which the indicators related to forest management planning, maps and availability of forest inventory records are being regularly evaluated and addressed.</p> <p>On the above background and limitations in scope, it is concluded that there is low risk in relation to the definition and mapping of the Supply Base.</p>

Means of Verification	<ul style="list-style-type: none"> <li>The scope is defined and justified;</li> <li>Maps at the appropriate scale are available;</li> </ul> Key personnel demonstrate an understanding of the Supply Base.
Evidence Reviewed	Danish Forestry Act (Skovloven) - <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a>
	Online map of Denmark, including environmental protection – Arealinfo <a href="http://arealinformation.miljoeportal.dk/distribution/">http://arealinformation.miljoeportal.dk/distribution/</a>  Thomas Nord-Larsen, Vivian Kvist Johannsen, Torben Riis-Nielsen, Iben M. Thomsen, Erik Schou, Kjell Suadicani og Bruno Bilde Jørgensen (2015): Skove og plantager 2014, Skov & Landskab, Frederiksberg, 2015. 85 s. ill. ( <a href="http://ign.ku.dk/samarbejde-raadgivning/myndighedsbetjening/skovovervaagning/intensivskovovervaagning/SP2014.pdf">http://ign.ku.dk/samarbejde-raadgivning/myndighedsbetjening/skovovervaagning/intensivskovovervaagning/SP2014.pdf</a> )
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
1.1.2	Feedstock can be traced back to the defined Supply Base.
Finding	<p>Supply chains for biomass feedstock to Biomass Producers and Generators in Denmark are typically very short. The Danish Nature Agency produces wood chips in the State forests (held and managed by the same agency), and also to a very limited degree, on private or municipal lands during publicly funded projects. In this case the forest owner is also the BP and the sales are made to the Generators without any intermediary. This is also the case for the largest private forest owners, who have wood from their forests chipped in-forest by contractors and then sell directly to the (small local) Generators. A very common supply chain for wood chip from forest to Generator in Denmark is the following: an intermediary (e.g. cooperative or forestry contractor) buys the feedstock as standing volume, or in stacks in the forest of origin, chips it either in one or two separate processes, and transports it either to a temporary storage location in the forest or directly to the Generator.</p> <p>Occasionally, logs intended for other purposes (cellulose or low-grade timber) will be chipped for biomass. This typically happens when a lot has not been picked up after sale, or when a lot is not large enough for it to be economically viable to transport it to the plant or sawmill.</p> <p>Another, not insignificant, source of feedstock in Denmark is feedstock from nature management projects, i.e. removal of trees from areas designated for open nature areas such as heaths, bogs, meadows, etc. This source of feedstock has the same properties as other sources of Primary Feedstock with regard to traceability within the Supply Base.</p> <p>Due to the short supply chain, feedstock is easily traced back to the forest or region of origin, either by means of invoice from the forest or land owner, or via transport</p>

	<p>documents and waybill. According to the Danish VAT Code, all commercial invoices must contain details relating to date, buyer and seller, volume and type of product, date of delivery and VAT. There is no general legal requirement for felling or transport permits.</p> <p>As evidenced by Denmark’s Corruption Perceptions Index (91, world’s highest as per 2015; signifying lowest levels of corruption) and the high level of law enforcement on taxation and VAT, the risk of invoices and transport documents being falsified or tampered with is very low, and consequently documents such as invoices and transport documents can be seen as reliable sources of information.</p> <p>Given the above background, the risk related to the traceability of Primary Feedstock back to the Supply Base is evaluated as Low.</p>
<p>Means of Verification</p>	<p>Invoices between forest owner and BP and between BP and Generator                  Transport/ shipping documents                  Waybills                  The existence of a strong legal framework in the region</p>
<p>Evidence Reviewed</p>	<p>Danish VAT code (Momsbekendtgørelsen)  <a href="https://www.retsinformation.dk/pdfPrint.aspx?id=173024">https://www.retsinformation.dk/pdfPrint.aspx?id=173024</a></p> <p>Købeloven <a href="https://www.retsinformation.dk/pdfPrint.aspx?id=142961">https://www.retsinformation.dk/pdfPrint.aspx?id=142961</a></p> <p>Bekendtgørelse om handel med træ og træprodukter med henblik på bekæmpelse af handel med ulovligt fældet træ. Bekendtgørelse nr 849 af 27/06/2016.  <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=182076">https://www.retsinformation.dk/Forms/R0710.aspx?id=182076</a></p> <p>Bekendtgørelse om sortering af råtræ -  <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=77507">https://www.retsinformation.dk/Forms/R0710.aspx?id=77507</a></p> <p>Lov nr. 1225 af 18. december 2012 om administration af Den Europæiske Unions forordning om handel med træ og træprodukter med henblik på bekæmpelse af handel med ulovligt fældet træ:  <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=144423">https://www.retsinformation.dk/Forms/R0710.aspx?id=144423</a></p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
<p>1.1.3</p>	<p>The feedstock input profile is described and categorised by the mix of inputs.</p>

<p>Finding</p>	<p>Since the supply chains are very short, and Biomass Producers usually source feedstock directly from the forests of origin, reliable information regarding the feedstock can be gathered in collaboration with the forest owners when necessary. Thus, for all Biomass Producers and in accordance with SBP requirements, it is possible to accurately classify and describe the type, species, and categorisation into roundwood and residual wood material and, when required, the approximate proportion of roundwood from final fellings.</p> <p>Wood chips for biomass are often sold with a description as either broadleaved, coniferous or mixed. There are no protected tree species in Denmark; so in other words no species that would not be acceptable in feedstock.</p> <p>Rules on measurement and volume calculation of roundwood and timber of standing forests define the procedures, definitions, measurement methods for roundwood and are obligatory for all forest owners, managers, traders and suppliers and therefore feedstock are categorized in a uniform way. The</p>
	<p>aforementioned VAT legislation and established system guarantee that feedstock input profiles can be described in accordance with national legislation.</p> <p>At forest level, The Danish Nature Agency does not undertake timber processing apart from in-forest chipping and sells only the forest primary products: roundwood, fuel wood, cutting residues, wood chips etc.</p> <p>The other Primary Feedstock producers, such as the private forest owners or estates, typically sell their primary products through intermediaries (De Danske Skovdyrkerforeninger, Hedeselskabet, forestry contractors), either as standing volume or in stacks or heaps.</p> <p><b>Overview of Legal Requirements</b>                  The Act on Classification of Wood Sold Under Certain Conditions regulates classification of harvested material. The regulation provides material classifications and quality category names. The Act specifies requirements for both measuring and sorting by dimension and quality. Trees must be sorted by species and usual product type (e.g. plank logs, sleeper logs, full-length timber, impregnation masts, piles, box wood, chip wood etc.). All wood classified under this Act shall be marked with A/EØF, B/EØF or C/EØF, etc., indicating the quality. These designations show that the wood has been classified according to the law.</p> <p><b>Description of Risk</b>                  Trade in Danish-produced wood material is well-regulated and – according to both The Danish Agency for Water and Nature Management and Danish Forest Association – there is no known corruption associated with this requirement. However, mixing of material is not covered by the regulation.</p> <p><b>Risk Conclusion:</b>                  Based on the available information, the risk for this Indicator has been assessed as Low.</p>

Means of Verification	Invoices between forest owner and BP and between BP and Generator Transport/ shipping documents Waybills Feedstock input records
Evidence Reviewed	Danish VAT Code (Momsbekendtgørelsen) <a href="https://www.retsinformation.dk/pdfPrint.aspx?id=173024">https://www.retsinformation.dk/pdfPrint.aspx?id=173024</a>  Købeloven <a href="https://www.retsinformation.dk/pdfPrint.aspx?id=142961">https://www.retsinformation.dk/pdfPrint.aspx?id=142961</a>  Bekendtgørelse om handel med træ og træprodukter med henblik på bekæmpelse af handel med ulovligt fældet træ. Bekendtgørelse nr 849 af 27/06/2016. <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=182076">https://www.retsinformation.dk/Forms/R0710.aspx?id=182076</a>  Bekendtgørelse om sortering af råtræ - <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=77507">https://www.retsinformation.dk/Forms/R0710.aspx?id=77507</a>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
1.2.1	Legality of ownership and land use can be demonstrated for the Supply Base.
Finding	<p>Land tenure rights are regulated by the Land Registration Law, with land ownership registered in the Land Book. According to the Land Registration Law, rights to real estate must be registered in the Land Book to manage cases of prosecution and to ensure valid agreements on property. When a land registration document is to be registered, it shall include details of land registry number and address, personal identification number and company registration number. Apart from registration in the Land Book, a legal contract of ownership shall also be signed.</p> <p>Customary rights and legal methods to obtain rights are equally regulated by the Land Registration Law. The Land Book is an online registry that is publicly available: <a href="https://www.tinglysning.dk/tinglysning/welcome.xhtml">https://www.tinglysning.dk/tinglysning/welcome.xhtml</a></p> <p>According to the Danish Forest Association, Denmark is one of the most highly organised countries in the context of spatial mapping, especially the forest area. Ownership is very clear, and there are very few areas without clearly defined ownership. The Danish Forest Association does not know of any risks related to ownership. The State's right to obtain land tenure is regulated through the Expropriation Law.</p> <p>All legally registered companies are registered in the CVR register from which information on type of business, size, address etc. is publicly available. The CVR number can be verified at Virk: <a href="https://datacvr.virk.dk/data/">https://datacvr.virk.dk/data/</a>. A legal business agreement is also a requirement.</p>

	<p>Description of Risk</p> <p>Legal ownership and land use can be demonstrated by reviewing the Land Book or the online register. Rights are clearly established in Denmark and business and tax registration are clear and transparent through public databases. Furthermore, laws in Denmark are very well enforced. In the Corruption Perceptions Index, Denmark was ranked first for the years 2014, 2013 and 2012; that is, for these years, Denmark was considered the least corrupt country in the world. (See <a href="https://www.transparency.org/cpi2014/results">https://www.transparency.org/cpi2014/results</a> for 2014 outcomes.)</p> <p>Within the World Bank Worldwide Governance Indicators index, Denmark scores close to 100% for Rule of Law and Control of Corruption. This indicates that there is very low risk that legislation on ownership and legal registration of businesses is not enforced.</p> <p>Risk Conclusion: Based on the available information, the risk for this Indicator has been assessed as Low.</p>
<p>Means of Verification</p>	<p>Existing legislation Levels of enforcement Danish Central Company Register: <a href="https://datacvr.virk.dk/data/">https://datacvr.virk.dk/data/</a> The Land Book: <a href="https://www.tinglysning.dk/tinglysning/welcome.xhtml">https://www.tinglysning.dk/tinglysning/welcome.xhtml</a> Online Land register map: <a href="http://gstkort.dk/spatialmap?">http://gstkort.dk/spatialmap?</a></p>
<p>Evidence Reviewed</p>	<p><a href="http://www.transparency.org/country/#DNK">Transparency International, Country profile for Denmark: http://www.transparency.org/country/#DNK</a></p> <p>The World Bank Worldwide Governance Indicators for Denmark 1996–2014: <a href="http://info.worldbank.org/governance/wgi/pdf/c63.pdf">http://info.worldbank.org/governance/wgi/pdf/c63.pdf</a></p>
	<p>Lov nr. 1225 af 18. december 2012 om administration af Den Europæiske Unions forordning om handel med træ og træprodukter med henblik på bekæmpelse af handel med ulovligt fældet træ: <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=144423">https://www.retsinformation.dk/Forms/R0710.aspx?id=144423</a></p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>      <input type="checkbox"/> <b>Specified Risk</b>      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
<p>1.3.1</p>	<p>Feedstock is legally harvested and supplied and is in compliance with EUTR legality requirements.</p>

<p>Finding</p>	<p>The Danish, forestry-related legislation relevant to EUTR is comprehensive and detailed and regulates numerous aspects, including maintaining the forest area, protection of Natura 2000 areas, general protection of the environment, etc.</p> <p>The Danish Agency for Water and Nature Management is the competent authority on the implementation of the EUTR in Denmark, including in the Danish forestry context. The Danish Agency for Water and Nature Management has published the document “Guidance for Danish Forest Owners on the EUTR” (Vejledning til danske skovejere om EU’s Tømmerforordning (EUTR)) in April 2016. This document lists the applicable legislation, gives examples of cases and includes a requirement that forest owners implement a due diligence system, so they can document that they are in compliance with relevant legislation.</p> <p>The “Bekendtgørelse om handel med træ og træprodukter med henblik på bekæmpelse af handel med ulovligt fældet træ” (Executive Order on Trade in Wood and Wood Products to Combat the Trade in Illegally Harvested Timber) establishes the regulation required to support the EUTR. The Danish Agency for Water and Nature Management is appointed to administer the enforcement. The regulation describes administrative decisions and penalty provisions. The legislation requires that all companies who are placing wood on the market: shall have a due diligence system in place; do not trade in illegally harvested wood; and be able to identify the companies one step up and one step down the market chain.</p> <p>According to interviewed representatives of The Danish Agency for Water and Nature Management, the enforcement of forest legislation in Denmark has been at a moderate level over the past decades since routine visits by government officials to forest owners ended in the mid 1980s. Since then, the enforcement of forest legislation has focused on reported cases of violations of relevant laws. There are a number of cases annually of reported violations of relevant laws but, according to the officials, the violations are not generally systematic, grave nor motivated by economic gain. Typical cases include not seeking a permit before otherwise acceptable felling activities in Natura 2000 areas, illegal construction of hunting cabins, or lack of payment of VAT for sales of firewood to private buyers.</p> <p>The Danish Agency for Water and Nature Management confirms that for legislation governed by the Agency (Forest Act and EU Timber Regulation) the number of violations recorded annually is very low.</p> <p>Risk conclusion: The risk conclusion for this Indicator refers to legality associated with the production of timber and feedstock for biomass in general. The risk of feedstock being harvested without legal compliance is assessed as Low.</p>
<p>Means of Verification</p>	<p>Existing legislation Level of enforcement Interviews demonstrate that key staff have a good knowledge of relevant forestry legislation.</p>



Evidence Reviewed	<p>Vejledning til danske skovejere om EU's Tømmerforordning (EUTR) - <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=179059">https://www.retsinformation.dk/Forms/R0710.aspx?id=179059</a></p> <p>Bekendtgørelse om handel med træ og træprodukter med henblik på bekæmpelse af handel med ulovligt fældet træ. Bekendtgørelse nr 849 af 27/06/2016. (<a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=182076">https://www.retsinformation.dk/Forms/R0710.aspx?id=182076</a>)</p> <p>Lov nr. 1225 af 18. december 2012 om administration af Den Europæiske Unions forordning om handel med træ og træprodukter med henblik på bekæmpelse af handel med ulovligt fældet træ: <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=144423">https://www.retsinformation.dk/Forms/R0710.aspx?id=144423</a></p> <p>Forest Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a></p> <p>Nature Protection Act: <a href="https://www.retsinformation.dk/forms/R0710.aspx?id=175785">https://www.retsinformation.dk/forms/R0710.aspx?id=175785</a></p> <p>Environmental Protection Act: <a href="http://www.retsinformation.dk/forms/R0710.aspx?id=132218">www.retsinformation.dk/forms/R0710.aspx?id=132218</a></p> <p>Ochre Act: <a href="http://www.retsinformation.dk/forms/R0710.aspx?id=127107">www.retsinformation.dk/forms/R0710.aspx?id=127107</a></p> <p>Watercourse Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=145855">https://www.retsinformation.dk/forms/r0710.aspx?id=145855</a></p>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>1.4.1</b>	Payments for harvest rights and timber, including duties, relevant royalties and taxes related to timber harvesting, are complete and up to date.
Finding	<p>Overview of Legal Requirements Royalties or timber harvesting taxes are not implemented in Denmark, and thus not relevant.</p> <p>A VAT of 25% shall be paid in accordance with the Tax Collection Act and the VAT Law. Value Added Tax shall be paid on a six month, three month or monthly basis depending on company turnover; and is administered by the Ministry of Taxation and applies to persons who conduct an independent business.</p> <p>Description of Risk Denmark scores high against World Bank Worldwide Governance Indicators. On a scale of 2.5 to +2.5, Denmark received a score of 1.72 (2014) for Regulatory Quality, 2.09 for Rule of Law and 2.26 for Control of Corruption.</p> <p>Regulation of sales tax and VAT is considered well-enforced in Denmark, and there are no indications that feedstock enters the biomass supply chain under violation VAT legislation.</p>



	The risk associated with lack of payment of VAT in relation to feedstock for biomass production is assessed as being Low.
Means of Verification	Sales invoice Transport documents
Evidence Reviewed	Danish VAT Code (Momsbekendtgørelsen) <a href="https://www.retsinformation.dk/pdfPrint.aspx?id=173024">https://www.retsinformation.dk/pdfPrint.aspx?id=173024</a>  Vejledning til danske skovejere om EU's Tømmerforordning (EUTR) - <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=179059">https://www.retsinformation.dk/Forms/R0710.aspx?id=179059</a>  The World Bank Worldwide Governance Indicators for Denmark 1996–2014: <a href="http://info.worldbank.org/governance/wgi/pdf/c63.pdf">http://info.worldbank.org/governance/wgi/pdf/c63.pdf</a>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
1.5.1	Feedstock is supplied in compliance with the requirements of CITES.
Finding	N/A: There are no tree species classified as CITES species in Denmark.  Risk Conclusion: Based on the above information, the risk for this indicator has been assessed as Low.
Means of Verification	CITES Appendices I, II and III
Evidence Reviewed	CITES Appendices I, II and III: ( <a href="https://cites.org/sites/default/files/eng/app/2016/E-Appendices-2016-03-10.pdf">https://cites.org/sites/default/files/eng/app/2016/E-Appendices-2016-03-10.pdf</a> )  Wikipedia, List of Trees of Denmark ( <a href="https://en.wikipedia.org/wiki/List_of_trees_of_Denmark">https://en.wikipedia.org/wiki/List_of_trees_of_Denmark</a> )
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
1.6.1	Feedstock is not sourced from areas where there are violations of traditional or civil rights.
Finding	<p>There are no Indigenous people with traditional land use rights in Denmark. There are limited customary use rights, e.g. right to use of roads or coppicing.</p> <p>There is no known evidence of disputes or conflicts over traditional or civil use rights related to the sourcing of feedstock for biomass production.</p> <p>Risk Conclusion: Based on the above information, the risk for this indicator has been assessed as Low.</p>
Means of Verification	<p>Traditional and civil rights are identified.</p> <p>Procedures are in place to ensure rights are not violated.</p>
Evidence Reviewed	<p>Bekendtgørelse om offentlighedens adgang til at færdes og opholde sig i naturen: <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=182079">https://www.retsinformation.dk/Forms/R0710.aspx?id=182079</a></p> <p>The World Bank Worldwide Governance indicators for Denmark 1996–2014: <a href="http://info.worldbank.org/governance/wgi/pdf/c63.pdf">http://info.worldbank.org/governance/wgi/pdf/c63.pdf</a></p>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.1.1	Forests and other areas with high conservation values in the Supply Base are identified and mapped.
Finding	<p>HCV Occurrence</p> <p>Danish forests have been surveyed by the Department of Geosciences and Natural Resource Management at Copenhagen University by means of a sampling methodology and documented under the Danish National Forest Inventory (NFI) hosted by The Danish Agency for Water and Nature Management .</p>

	<p>As Danish forests have been well-researched and significant conservation values have been identified, it can be concluded – based on consultations with experts – that there are no major knowledge/ data gaps in relation to significant and important HCV areas and these areas are mapped and available to the public through the website Danmarks Miljøportal  <a href="http://arealinformation.miljoportal.dk/distribution/">(http://arealinformation.miljoportal.dk/distribution/)</a></p> <p>While significant and important HCV areas critical to conservation are designated as protected areas at national or EU level (Natura 2000), one consulted key forest ecology expert and two consulted environmental Non-Governmental Organisations (eNGOs) argue that there are very likely a large number of smaller areas or biotopes of local or regional importance to biodiversity or as species habitats. In a Danish context these are called Key Biotopes (“nøglebiotoper”). These areas are not systematically identified and mapped. The tool recommended by The Danish Agency for Water and Nature Management for identification of Key Biotopes is a catalogue of examples developed and published in 2000.</p> <p>A recent report by the Department of Geosciences and Natural Resource Management at Copenhagen University describes a method for generating a High Nature Value (HNV) forest map for Denmark. Based on this, an interactive map has been developed and made publicly available online. The online map will provide an indication of areas (shown as a color gradient) where a combination of factors makes the occurrence of High Nature Value forest more likely.</p> <p>Further identification of ‘forests containing particular natural values’ is a goal of the most recent Danish Forest Act (Article 25). The plans for this project were initiated in early 2016, with the work by The Danish Agency for Water and Nature Management expected to be concluded in 2019. This project will identify previously unknown ‘forests containing particular natural values’ that is not already covered by Natura 2000 or protected status. This could be Woodland key habitats or biodiversity hotspots, and could likely be in forests that were previously under no or low-intensity forest management.</p> <p>For this assessment, the HCV categories 1–6 below reference the document Common Guidance for the Identification of High Conservation Values from the HCV Resource Network.</p> <p>HCV 1:          Habitats/ breeding/ resting places for conservation-reliant and Red List plant and animal species;          An overview of conservation-reliant species in the EU Habitats Directive Annexes II, IV and V and the Birds Directive Annex I can be found on The Danish Agency for Water and Nature Management’s website;          Endangered and rare animal and plant species on the Danish Red List.</p> <p>HCV 2: Large woodland territories: N/A – as according to FSC’s HCV 2 definition, Denmark does not contain these types of forests.</p> <p>HCV 3: In a Danish context, it is determined that this category is covered by Natura 2000 areas, areas covered by the Nature Protection Act (Article 3), other protected areas, as well as an identification of Key Biotopes (Nøglebiotoper). Natura 2000 areas are aligned</p>
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with the European Commission’s Habitats and Birds Directives; and contain Woodland Key Habitats (WKH), protected habitats conserved under the Nature Conservation Act (Article 3), and the Forest Act (Articles 25 , 26 and 27).

Other protected areas and key habitats such as protected lakes, streams, moors, marshes, salt marshes, fresh meadows and grasslands conserved under Nature Conservation Act (Article 3); and Oak shrub forests are preserved under the Forest Act (Article 26). Deciduous forest boundary areas are protected under the Forest Act (Article 27). Natura 2000 areas and protected areas are completely mapped, but there is currently no legal requirement for mapping of areas covered by the Forest Act Articles 27 to 28, nor for the identification and mapping of Key Biotopes.

HCV 4: Natura 2000 areas, Nature Protection Act (Article 3), other protected areas and “nearwell protected areas” (Boringsnære Beskyttelsesområder – BNBO) which describe the protected area surrounding a water source (a well), and are areas with important water protection values.

HCV 5: Forest sites and resources are not fundamental to meeting the necessities of communities in Denmark. Forests protected by the Forest Act also provide basic protection of local communities' needs. Therefore, it is concluded that this category is not applicable in the Danish context, and thus it is not addressed here.

HCV 6: This includes areas with significant national cultural and historical values, including ancient burial mounds and other archaeological sites, but also early industrial sites and other significant cultural sites.

**HCV Mapping and Identification**  
 HCVs have been identified and mapped in all Danish forests that are FSC- or PEFC-certified, and also in forests that have received government subsidies for the development of a so-called ‘green management plan’; since a requirement for the payment of the subsidy is that HCVs are identified, mapped and incorporated into the management plan.

There is still a significant number of forests that are not FSC- or PEFC-certified and that do not have a green management plan. There is no public register of forests that have a green management plan, nor are there any requirements that the HCVs identified and mapped in the green management plans are made public.

The identification and mapping of ‘forests containing particular natural values’ as per the Danish Forest Act (Article 25) has started (spring 2016) and is expected to be concluded in 2019. Since the maps are still being developed, these cannot currently be used for protection of HCVs when planning feedstock sourcing.

**Source Types and their risk levels**

There can be defined different “source types” e.i. sources of biomass feedstock that share properties with regard to presence, mapping and protection HCVs, including Key biotopes and biodiversity in a broader sense, the following source types are defined and their risk levels assessed:

	<ol style="list-style-type: none"> <li>1. Feedstock originating from FSC or PEFC certified forests: Feedstock originating from FSC or PEFC certified forests is recognized by SBP as sustainable, and identification, mapping and protection of HCV is seen as sufficient. These forests are also subject to third party evaluation. Risk is evaluated as LOW</li> <li>2. Feedstock originating from forest estates with a Green Management plan: It is a requirement for receiving subsidies for developing a Green Management plan that HCV areas in the forest are identified and mapped. Risk is evaluated as LOW</li> <li>3. Feedstock from thinning in even-aged stands of conifers: Based on feedback from several stakeholders and key experts, is concluded that the chance of key biotopes being under threat from thinning operations in even-aged conifers in Danish forests, and taking into account existing mapping of other HCV categories the risk is assessed as being LOW</li> <li>4. Feedstock from thinning in first generation afforestation areas: Based on feedback from several stakeholders and key experts, is concluded that the chance of key biotopes being under threat from thinning operations in first generation afforestation areas, and taking into existing mapping of other HCV categories the risk is assessed as being LOW</li> <li>5. Feedstock from uneven-aged stands or stands of broadleaf species: Due to no legal requirement for identification and mapping of Key biotopes, it is assessed that for all other forest sources of biomass feedstock, the risk of HCVs being present, but not identified or mapped is SPECIFIED</li> </ol>
	<p>6. Feedstock from non-forest areas, e.g. nature maintenance projects, windbreaks or residential areas: For feedstock from non-forest areas, it is concluded that HCVs are mapped and/or legally protected, and as such the risk related to identification and mapping HCV is evaluated to be LOW.</p> <p>Risk conclusion Based on the evidence provided above, it is concluded that there is a specific risk that at least locally important Key Biotopes in forests have not yet been identified and mapped, and may therefore be at risk from threats due to sourcing of biomass. However, it is also concluded that some source types are inherently low in key biotopes, such as first generation afforestation areas or even-aged stands of conifers.</p>
<p>Means of Verification</p>	<p>Internet research Interviews GIS maps of HCV areas Interviews Regional, publicly available data from a credible third party The existence of a strong legal framework in the region</p>

<p>Evidence Reviewed</p>	<p>Brown, E., N. Dudley, A. Lindhe, D.R. Muhtaman, C. Stewart, and T. Synnott (eds). 2013 (October). Common Guidance for the Identification of High Conservation Values. HCV Resource Network.</p> <p>Danmarks Miljøportal: <a href="http://arealinformation.miljoeportal.dk/distribution/">http://arealinformation.miljoeportal.dk/distribution/</a> Interactive map of protected areas: <a href="http://www.fredninger.dk/">http://www.fredninger.dk/</a></p> <p>Catalogue of Key Biotopes in Forests (Nøglebiotoper i skov – Billedkatalog): <a href="http://naturstyrelsen.dk/media/nst/67041/Noeglebiotoper.pdf">http://naturstyrelsen.dk/media/nst/67041/Noeglebiotoper.pdf</a></p> <p>Development of a High Nature Value forest map for Denmark: <a href="http://forskning.ku.dk/find-enforsker/?pure=files%2F150278108%2FHNVskov_rapport_final.pdf">http://forskning.ku.dk/find-enforsker/?pure=files%2F150278108%2FHNVskov_rapport_final.pdf</a></p> <p>Rules for subsidies for Green Management Plans: <a href="http://naturstyrelsen.dk/naturbeskyttelse/skovbrug/privat-skovdrift/tilskud-til-privateskove/groen-driftsplan/">http://naturstyrelsen.dk/naturbeskyttelse/skovbrug/privat-skovdrift/tilskud-til-privateskove/groen-driftsplan/</a></p> <p>The Digital Nature Map – The Biodiversity map of Denmark (<a href="http://miljoegis.mim.dk/cbkort?profile=miljoegis-plangroendk">http://miljoegis.mim.dk/cbkort?profile=miljoegis-plangroendk</a>)</p> <p>Johannsen, V.K., Rojas,S.K., Brunbjerg, A.K., Schumacher, Bladt, J., Nyed, Moeslund, J.E., Nord-Larsen, T. og Ejrnæs, R. (2015): Udvikling af et High Nature Value - HNV-skovkort for Danmark. IGN Rapport November 2015, Institut for Geovidenskab og Naturforvaltning, Københavns Universitet, Frederiksberg</p> <p>Johannsen, V. K., Dippel, T., Friis Møller, P., Heilmann-Clausen, J., Ejrnæs, R., Larsen, J. B., ... Hansen, G. K. (2013): Evaluering af indsatsen for biodiversiteten i de danske skove 1992 - 2012. Institut for Geovidenskab og Naturforvaltning, Københavns Universitet. <a href="http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet-19922012.pdf">http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet-19922012.pdf</a></p>
<p>Risk Rating</p>	<p><input type="checkbox"/> Low Risk                      <input checked="" type="checkbox"/> Specified Risk                      <input type="checkbox"/> Unspecified Risk at RA</p>
<p>Comment or Mitigation Measure</p>	<p>The goal of the mitigation measure is to ensure that any HCV in the area within the Supply Base is identified and sufficiently mapped before sourcing begins of feedstock for biomass production, so that the information about any HCVs can be securely passed on to staff carrying out the felling and chipping operation.</p>

	<p>As per the source type risk evaluations above, appropriate risk mitigating measure before sourcing biomass feedstock from source type 5: Uneven-aged stands or stands of broadleaf species, is that identification and mapping of HCVs must be carried out.</p> <p>It is suggested that existing knowledge about the forest area where feedstock sourcing is planned is supplemented with a review of the online HNV forest map (which available at <a href="http://miljoegis.mim.dk/cbkort?profile=miljoegis-plangroendk">http://miljoegis.mim.dk/cbkort?profile=miljoegis-plangroendk</a>) prior to a field survey of HCVs for a calculated indication of the potential for HCVs, and that this is used in deciding the scale and intensity of the field survey and mapping activities. It is suggested that the catalogue of Key Biotopes or similar methodology is used in the identification of the HCVs present.</p> <p>The effectiveness of the application of the catalogue of Key Biotopes is reliant upon sufficient skill and training of the personnel carrying out the survey. For a skilled professional the identification and mapping of HCVs would be possible with an acceptable level of effort compared to the size of the area where sourcing of feedstock will take place.</p> <p>It is suggested that the knowledge of relevant third parties and external experts is used for the mapping of key biotopes and that the records (mapping) is made available to third parties on request, if this can contribute to additional identification and mapping of key biotopes based on inputs form relevant third parties and external experts..</p> <p>Once the maps resulting from the identification and mapping of ‘forests containing particular natural values’ as per the Danish Forest Act (Article 25) is available, it is suggested that these are used as the indication of the presence of HCVs.</p>
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Indicator	
<b>2.1.2</b>	Potential threats to forests and other areas with high conservation values from forest management activities are identified and addressed.
<b>Finding</b>	<p>Please see Indicator 2.1.1 for discussion regarding the risk designation for identification and mapping of HCVs. Source Types and their risk levels</p> <p>There can be defined different “source types” e.i. sources of biomass feedstock that share properties with regard to presence, mapping and protection HCVs, including Key biotopes and biodiversity in a broader sense, the following source types are defined and their risk levels assessed:</p> <ol style="list-style-type: none"> <li>1. Feedstock originating from FSC or PEFC certified forests: Feedstock originating from FSC or PEFC certified forests is recognized by SBP as sustainable. The certification standards include requirements for identification, mapping and protection of HCV and FMUs that have carried out sufficient mapping and implemented procedures to ensure proper protection of HCV’s can provide assurance of compliance with these requirements through certification. . Risk is evaluated as LOW</li> </ol>

	<p>2. Feedstock originating from forest estates with a Green Management plan: It is a requirement for receiving subsidies for developing a Green Management plan that HCV areas in the forest are identified and mapped. However, there is no strict requirement that the HCVs are monitored and protected from forest management, and therefore risk is evaluated as SPECIFIED.</p> <p>3. Feedstock from thinning in even-aged stands of conifers: Based on feedback from several stakeholders and key experts, is concluded that the chance of key biotopes being under threat from thinning operations in even-aged conifers</p>
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	<p>in Danish forests, and taking into account existing mapping of other HCV categories the risk is assessed as being LOW</p> <p>4. Feedstock from thinning in first generation afforestation areas: Based on feedback from several stakeholders and key experts, is concluded that the chance of key biotopes being under threat from thinning operations in first generation afforestation areas, and taking into existing mapping of other HCV categories the risk is assessed as being LOW</p> <p>5. Feedstock from uneven-aged stands or stands of broadleaf species: Due to no legal requirement for identification and mapping of Key biotopes, it is assessed that for all other forest sources of biomass feedstock, the risk of HCVs being present, but not identified or mapped is SPECIFIED</p> <p>6. Feedstock from non-forest areas, e.g. nature maintenance projects, windbreaks or residential areas: For feedstock from non-forest areas, it is concluded that HCVs are mapped and/or legally protected, and as such the risk related to identification and mapping HCV is evaluated to be LOW.</p>
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<p>Means of Verification</p>	<p>FSC or PEFC Forest Management certificate Green management plan and map of HCVs Forest Management plan Regional Best Management Practices Standard Operating Procedures Codes of Practice Records of BP field inspections Monitoring records Interviews with staff Publicly available information on the protection of the values identified Regional, publicly available data from credible third parties The existence of a strong legal framework in the region</p>
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<p>Evidence Reviewed</p>	<p>Rules for subsidies for Green Management Plans:  <a href="http://naturstyrelsen.dk/naturbeskyttelse/skovbrug/privat-skovdrift/tilskud-til-privateskove/groen-driftsplan/">http://naturstyrelsen.dk/naturbeskyttelse/skovbrug/privat-skovdrift/tilskud-til-privateskove/groen-driftsplan/</a></p> <p>FSC Standard for Forest Management certification in Denmark</p> <p>PEFC Standard for Forest Management certification in Denmark</p> <p>Johannsen, V. K., Dippel, T., Friis Møller, P., Heilmann-Clausen, J., Ejrnæs, R., Larsen, J. B., ... Hansen, G. K. (2013): Evaluering af indsatsen for biodiversiteten i de danske skove 1992 - 2012. Institut for Geovidenskab og Naturforvaltning, Københavns Universitet.  <a href="http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet1992-2012.pdf">http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet1992-2012.pdf</a></p> <p>The Digital Nature Map – The Biodiversity map of Denmark                  (http://miljoegis.mim.dk/cbkort?profile=miljoegis-plangroendk)</p> <p>Johannsen, V.K., Rojas,S.K., Brunbjerg, A.K., Schumacher, Bladt, J., Nyed, Moeslund, J.E., Nord-Larsen, T. og Ejrnæs, R. (2015): Udvikling af et High Nature Value - HNV-skovkort for Danmark. IGN Rapport November 2015, Institut for Geovidenskab og Naturforvaltning, Københavns Universitet, Frederiksberg                  (<a href="http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet1992-2012.pdf">http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet1992-2012.pdf</a>)</p>
	<p>Nygaard, B., Ejrnæs, R., Juel, A. &amp; Heidemann, R. 2011. Ændringer i arealet af beskyttede naturtyper 1995-2008 – en stikprøveundersøgelse. Danmarks Miljøundersøgelser, Aarhus Universitet. 82 s. – Faglig rapport fra DMU nr. 816:  <a href="http://www.dmu.dk/Pub/FR816.pdf">http://www.dmu.dk/Pub/FR816.pdf</a></p>
<p>Risk Rating</p>	<p><input type="checkbox"/> Low Risk                      <input checked="" type="checkbox"/> Specified Risk                      <input type="checkbox"/> Unspecified Risk at RA</p>
<p>Indicative / Possible Mitigation Measure</p>	<p>For forests with a green management plan, HCVs have been identified and mapped, but since there is no requirement for independent evaluation of adherence to limitations in the green management plan, the plan including the maps must be consulted and planned activities must be compared to HCV identified the green management plan.</p> <p>For forests without at least a green management plan, HCVs in the area where feedstock for biomass production is sourced must first be identified and mapped (see Indicator 2.1.1), and sufficient maps and instruction prepared – for personnel in charge of the felling or other activities – to ensure that HCVs will not be threatened by forest management activities.</p> <p>It is suggested that the knowledge of relevant third parties and external experts is used for the mapping of key biotopes and that the records (mapping) is made available to third parties on request, if this can contribute to additional identification and mapping of key biotopes based on inputs from relevant third parties and external experts.</p>

	Indicator
2.1.3	Feedstock is not sourced from forests converted to production plantation forest or nonforest lands after January 2008.
Finding	<p>In a Danish context, it is important to note that, due to the history of Danish forests, most forests today are the result of afforestation projects occurring over the last 200 years, since the forest cover was at its lowest in the early 19<sup>th</sup> century. Additionally, most forests in Denmark have been under some form of forest management.</p> <p>The Danish Forest Act ( Article 8) states that areas covered by the Forest Act must support trees that are expected to form a full height stand with a closed canopy. The Forest Act Forest Act also states that tree stands cannot be felled before they have reached maturity and the area must meet the above requirements at the latest ten years after clearcutting. The Forest Act Forest Act ( Article 9) contains provision to use – for grazing and coppicing – up to 10% of the forest area protected by the Act Forest Act. This will also include the use of forest land for Christmas tree production or short rotation poplar for biomass purposes.</p> <p>Since conversion of up to 10% of the area protected by the Forest Act can legally be converted to short rotation production stands of Christmas trees or poplar for feedstock purposes, some conversion has most likely taken place since 2008.</p> <p>There is, however, no evidence of significant conversion of forest areas from a natural or near-natural state to production plantation forest after January 2008.</p> <p>Risk conclusion Based on the above, it is concluded that the risk of feedstock originating from natural or near natural forests stand that has been converted to short rotation plantation forest stands or non-forest use is Low.</p>
Means of Verification	<p>Historical maps and discussions with stakeholders Regional, publicly available data from a credible third party The existence of a strong legal framework in the region Records of BP field inspections Monitoring records</p>
	<p>Interviews with staff Aerial photos are available from 1954, 1995 and later at: <a href="http://miljoegis.mim.dk/spatialmap?">http://miljoegis.mim.dk/spatialmap?</a></p>
Evidence Reviewed	<p>The Danish Forest Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a></p> <p>Definitions Related to Planted Forests: <a href="http://www.fao.org/docrep/007/ae347e/ae347e02.htm">http://www.fao.org/docrep/007/ae347e/ae347e02.htm</a></p> <p>National Forest Inventory (NFI) 2014: <a href="http://ign.ku.dk/samarbejderaadgivning/myndighedsbetjening/skovovervaagning/intensivskovovervaagning/SP2014.pdf">http://ign.ku.dk/samarbejderaadgivning/myndighedsbetjening/skovovervaagning/intensivskovovervaagning/SP2014.pdf</a></p> <p>Global Forest Watch, Country Profile for Denmark: <a href="http://www.globalforestwatch.org/country/DNK">http://www.globalforestwatch.org/country/DNK</a></p>

Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b>	<input type="checkbox"/> <b>Specified Risk</b>	<input type="checkbox"/> <b>Unspecified Risk at RA</b>
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	Indicator
<b>2.2.1</b>	Feedstock is sourced from forests where there is appropriate assessment of impacts, and planning, implementation and monitoring to minimise them.
Finding	<p>Monitoring the impact of logging and extraction of biomass from Danish forests is carried out in different ways and by different stakeholders.</p> <p>Forest management practices generally aim to minimise the impact of forest management operations, including impacts to the remaining stand, neighboring stands, soils, wetlands and watercourses.</p> <p>National monitoring and research programs carried out by research institutes have documented this impact on a wide range of parameters including soil structure, nutrients, biodiversity, forest health, volume growth, etc. Impact studies are to a limited extent focused on the specific impact of biomass extraction but do cover this aspect of the forest operation as well.</p> <p>The Danish Nature Agency has established an extensive FM planning practice with a 15 year planning period which includes consideration of the impacts of forest operations and biomass extraction on a range of forest goods and values. Impact considerations are based both on research as well as in-house and external expertise and knowledge which is used in the planning and implementation of forest operations.</p> <p>At private forest level, the situation related to planning and impact monitoring varies significantly among FMUs and depends on the size of the FMU; whether in-house or external forest expertise is used in connection with planning and execution of forest activities; and whether the FMU is covered by a forest management plan.</p>

	<p>A significant proportion of large- and medium-sized private FMUs have forest management plans that integrate current knowledge about the impact of forest operations. FMUs for which green forest management plans have been developed (based on Government subsidies) include specific mapping of areas of High Conservation Value and Key Biotopes and created plans to avoid negative impacts or improve the biodiversity.</p> <p>There is generally good adherence to relevant legislation protecting forests and the forest environment, and reported illegal activities are dealt with by the authorities.</p> <p>Environmental impact studies are required by law in situations where there is a significant potential impact on forest areas caused by infrastructure or other projects. In such cases, national legislation regarding landscape planning etc. also applies. Some of the wood harvested from such areas affected by these types of projects is likely to be converted to and sold as biomass.</p> <p>In private forests, logging and biomass extraction is to a large extent carried out by entrepreneurs who also operate in FSC- or PEFC-certified forests, including the State forests, with the same machines and drivers used in the certified FMUs. In such cases the machinery fulfills certification requirements related to low soil impact etc., and the drivers have a high level of understanding of how to avoid negative impact on soils, biodiversity, stands, streams, HCVs etc.</p> <p>Risk conclusion: This assessment concludes that current practices generally ensure appropriate assessment of impacts in connection with production of biomass, and that planning, implementation and monitoring is sufficient to minimize negative impact based on available knowledge. Therefore the risk is evaluated as low.</p>
<p>Means of Verification</p>	<p>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 identified values Level of enforcement Regional, publicly available data from a credible third party The existence of a strong legal framework in the region</p>

Evidence Reviewed	<p>Vejledning til danske skovejere om EU's Tømmerforordning (EUTR) - <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=179059">https://www.retsinformation.dk/Forms/R0710.aspx?id=179059</a></p> <p>Forest Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a></p> <p>Nature Protection Act: <a href="https://www.retsinformation.dk/forms/R0710.aspx?id=175785">https://www.retsinformation.dk/forms/R0710.aspx?id=175785</a></p> <p>Environmental Protection Act: <a href="http://www.retsinformation.dk/forms/R0710.aspx?id=132218">www.retsinformation.dk/forms/R0710.aspx?id=132218</a></p> <p>Watercourse Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=145855">https://www.retsinformation.dk/forms/r0710.aspx?id=145855</a></p> <p><a href="#">Biomassepotentialer i Danmark, EU og Globalt; Rapport udarbejdet for Energistyrelsen af KU og COWI, Oktober 2015</a></p> <p><a href="#">Thomas Nord-Larsen &amp; Kjell Suadican (2010): Træbrændelsesressourcer fra danske skove over 1/2 ha – opgørelse og prognose 2010. Arbejdsrapport nr. 113, Skov &amp; Landskab, Københavns Universitet</a></p> <p>Graudal, L., Nielsen, U.B., Schou, E., Thorsen, B.J., Hansen, J.K., Bentsen, N.S., og Johannsen, V.K. (2013): Muligheder for bæredygtig udvidelse af dansk produceret vedmasse 2010-2100. Perspektiver for skovenes bidrag til grøn omstilling mod en biobaseret økonomi, Institut for Geovidenskab og Naturforvaltning, 86 s. ill.</p>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

Indicator	
<b>2.2.2</b>	Feedstock is sourced from forests where management maintains or improves soil quality (CPET S5b).
<b>Finding</b>	<p>The effects of logging practices and extraction of biomass from forests on the soil and ecosystem nutrient pool in different parts of Denmark have been analysed through research projects over significant periods of time for both nutrient-poor and nutrient-rich soils. The research covers two aspects of soil quality: soil structure and nutrient balance.</p> <p>Leaves/ needles and bark contain most of the nutrients in the trees (N, P, K and Ca). The common practice in Denmark when chipping feedstock for biomass is to leave the branches and top ends in the forest for pre-drying for several months until leaves or needles are shed and left behind in the stand, and before carrying out the chipping. Studies show that this practice significantly minimises plant nutrient loss compared to methods where leaves and needles are removed from the stands. Even with an increase in biomass production the practice of leaving leaves and needles in the forest stands is not expected to change as the technical requirements set by the converters regarding water content in the biomass prevent the production of 'green' biomass, i.e. biomass containing fresh leaves and needles.</p> <p>The removal of plant nutrients over a rotation period should be evaluated against the pool of nutrients that the location can produce through weathering of soil minerals or air deposition. On very nutrient-poor soils the removal of nutrients through wood extraction can exceed the</p>

	<p>nutrients that are added from weathering and deposition and thereby lead to a long-term decrease in the nutrient pool.</p> <p>Forest owners can compensate for nutrient loss by spreading ash from wood biomass in the stands. The University of Copenhagen has developed a tool (ESBEN) to help calculate the nutrient balance of forest stands in connection with biomass extraction and to evaluate the effectiveness of adding nutrients to the forest stand by spreading ash from wooden biomass in the stands  <a href="http://videntjenesten.ku.dk/skov_og_natur/skader_paa_skov/naeringsstofubalance_i_jorden/vi_denblad_08.05-16/">(http://videntjenesten.ku.dk/skov_og_natur/skader_paa_skov/naeringsstofubalance_i_jorden/vi_denblad_08.05-16/)</a></p> <p>It should be mentioned that biomass to some extent is harvested from areas like heaths and bogs where the aim is to keep the soil nutrient levels low, as this is a characteristic of this type of landscape. On such areas all biomass including needles and leaves is often removed in connection with chipping.</p> <p>The impact on soil structure in connection with extraction of biomass from forest stands depends on the soil conditions, the machinery used and how and when the machines operate in the forest stand. In private forests, logging and biomass extraction is to a large extent carried out by entrepreneurs who also operate in FSC- or PEFC-certified forests, including the State forests, with the same machines and drivers used in the certified FMUs. In such cases the machinery fulfills certification requirements related to low soil impact etc., and the drivers have a high level of understanding of how to avoid negative impact on soils. Thus, there are common technical solutions to minimising impacts on soils, e.g. wider tyres with forest-specific design; machines operated in a fashion that takes soil conditions into account. Operations are often moved or rescheduled if the soil is waterlogged, so undue soil damage can be avoided.</p> <p>Risk conclusion:          It is concluded that the risk of negative impact on forest nutrient balance in connection with biomass extraction is low, considering the current practices of not extracting leaves/ needles from nutrient-poor soils and the possibility of adding nutrients to compensate for net loss.</p> <p>It is concluded that the risk of negative impact on soil structure in connection with biomass extraction is Low.</p>
<p>Means of Verification</p>	<p>Regional Best Management Practices                  Records of BP field inspections                  Interviews with staff                  Assessment at an operational level of measures designed to minimise impacts on the values identified                  The existence of a strong legal framework in the region Level of enforcement                  Regional, publicly available data from a credible third party</p>

<p>Evidence Reviewed</p>	<p>Petersen, Leif og Karsten Rasmussen: Jordbundsudvikling under ager og nåleskov. Geografisk Tidsskrift 87: 65-67. København, juni 1987. Retrieved from <a href="https://tidsskrift.dk/index.php/geografisktidsskrift/article/viewFile/5186/9796">https://tidsskrift.dk/index.php/geografisktidsskrift/article/viewFile/5186/9796</a>  <a href="http://denstoredanske.dk/Geografi_og_historie/Geografi/Naturgeografi/Jordbundsgeografi/podsol">http://denstoredanske.dk/Geografi_og_historie/Geografi/Naturgeografi/Jordbundsgeografi/podsol</a></p> <p>Madsen, Henrik Breuning: Clay Migration and Podzolization in a Danish Soil. Geografisk Tidsskrift 84: 6-9. Copenhagen, January. Retrieved from: <a href="https://tidsskrift.dk/index.php/geografisktidsskrift/article/view/4477/8383">https://tidsskrift.dk/index.php/geografisktidsskrift/article/view/4477/8383</a></p> <p>The Danish Forest Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a></p> <p>The Danish Nature Protection Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175785">https://www.retsinformation.dk/forms/r0710.aspx?id=175785</a></p> <p>Miljøforhold ved brændselsfrembringelse og håndtering, Videncenter for Halm- og Flisfyring (<a href="http://www.videncenter.dk">www.videncenter.dk</a>)</p> <p>Videnblade vedr. Næringsstof-ubalance i jorden, publiceret af Videntjenesten, Københavns Universitet (<a href="http://videntjenesten.ku.dk/skov_og_natur/skader_paa_skov/naeringsstofubalance_i_jorden/">http://videntjenesten.ku.dk/skov_og_natur/skader_paa_skov/naeringsstofubalance_i_jorden/</a>)</p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
2.2.3	Key ecosystems and habitats are conserved or set aside in their natural state (CPET S8b).
Finding	<p>The Danish Forest Act ( Article 14–24) establishes legal protection of key ecosystems and habitats in Denmark by means of designation of Natura 2000 areas (approx. 19.000 hectares - comprised of EU Habitats Directive areas and EU Birds Directive areas). With the designation of 21.000 hectares of untouched forest or forests with old management systems such as coppicing, forest grazing, and oak shrub forest, the total forest area where protection of natural values or biodiversity is app. 35.000 hectares or approx. 5,7% of the total forest area (there is some overlap).</p> <p>Some forest landscapes are protected by “fredning” which is a form of legal protection in Denmark. Protected areas can be designated with objectives of landscape or wildlife protection. Protected areas cannot be changed, but maintenance is typically carried out. Protected areas can have regulation of public access to the area, to either maintain right of access; or – where specific wildlife interests mandate this – prohibit public access without a specific permit.</p> <p>A scientific report (Johannsen et al. 2013) concludes that clear goals and better mapping of species, along with evidence-based measures, are prerequisites for future efforts for biodiversity in Danish forests, and ensuring protection of threatened species, structures and habitats should be prioritised.</p> <p>Risk conclusion: Based on the existing protection through the Forest Act and designation of Natura 2000 areas and individual protected areas, it is concluded that larger scale key ecosystems and habitats are sufficiently protected, and that sourcing of feedstock for biomass does not pose a threat towards these areas.</p> <p>As mentioned in the findings for criteria 2.1.1 it is likely that a large number of smaller areas or biotopes of local or regional importance to biodiversity or as species habitats, in a Danish context called Key Biotopes (“nøglebiotoper”), which are not systematically identified and mapped. Based on a precautionary approach the risk assessment conclude that for these areas the risk is specified based on the same findings as for Indicators 2.1.1 and 2.1.2.</p>
Means of Verification	<p>Danmarks Miljøportal: <a href="http://arealinformation.miljoportal.dk/distribution/">http://arealinformation.miljoportal.dk/distribution/</a>                      Interactive map of protected areas: <a href="http://www.fredninger.dk/">http://www.fredninger.dk/</a>  <a href="#">The Digital Nature Map – The Biodiversity map of Denmark</a></p>



<p>Evidence Reviewed</p>	<p>Danish Forestry Act (Skovloven) - <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a></p> <p>The Danish Nature Protection Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175785">https://www.retsinformation.dk/forms/r0710.aspx?id=175785</a></p> <p>Online map of Natura 2000 areas and protected areas in Denmark: <a href="http://arealinformation.miljoportal.dk/distribution/">http://arealinformation.miljoportal.dk/distribution/</a></p> <p><a href="#">Interactive map with all types of protection in Denmark: The Digital Nature Map – The Biodiversity map of Denmark</a></p> <p>Johannsen, V. K., Dippel, T., Friis Møller, P., Heilmann-Clausen, J., Ejrnæs, R., Larsen, J. B., ... Hansen, G. K. (2013): Evaluering af indsatsen for biodiversiteten i de danske skove 1992 - 2012. Institut for Geovidenskab og Naturforvaltning, Københavns Universitet.</p>
	<p><a href="http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet1992-2012.pdf">http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet1992-2012.pdf</a></p> <p>Nygaard, B., Ejrnæs, R., Juel, A. &amp; Heidemann, R. 2011. Ændringer i arealet af beskyttede naturtyper 1995-2008 – en stikprøveundersøgelse. Danmarks Miljøundersøgelser, Aarhus Universitet. 82 s. – Faglig rapport fra DMU nr. 816: <a href="http://www.dmu.dk/Pub/FR816.pdf">http://www.dmu.dk/Pub/FR816.pdf</a></p> <p>Johannsen, V.K., Rojas,S.K., Brunbjerg, A.K., Schumacher, Bladt, J., Nyed, Moeslund, J.E., Nord-Larsen, T. og Ejrnæs, R. (2015): Udvikling af et High Nature Value - HNV-skovkort for Danmark. IGN Rapport November 2015, Institut for Geovidenskab og Naturforvaltning, Københavns Universitet, Frederiksberg</p>
<p>Risk Rating</p>	<p><input type="checkbox"/> Low Risk      <input checked="" type="checkbox"/> Specified Risk      <input type="checkbox"/> Unspecified Risk at RA</p>
<p>Indicative / Possible Mitigation Measure</p>	<p>Risk mitigation measures are the same as for Indicator 2.1.2:</p> <p>For forests with a green management plan key biotopes and habitats have been identified and mapped, but since there is no requirement for independent evaluation of adherence to limitations in the green management plan, the plan including the maps must be consulted and planned activities must be compared to key Biotopes and habitats identified the green management plan.</p> <p>For forests without at least a green management plan key biotopes and habitats in the area where feedstock for biomass production is sourced must first be identified and mapped (see Indicator 2.1.1), and sufficient maps and instruction prepared – for personnel in charge of the felling or other activities – to ensure that key biotopes and habitats will not be threatened by forest management activities.</p>

	Indicator
2.2.4	Biodiversity is protected (CPET S5b).
Finding	<p>The Danish Forest Act (Article 14–24) establishes legal protection of key ecosystems and habitats in Denmark by means of designation of Natura 2000 areas (approx. 19.000 hectares - comprised of EU Habitats Directive areas and EU Birds Directive areas). With the designation of 21.000 hectares of untouched forest or forests with old management systems such as coppicing, forest grazing, and Oak brushwood, the total forest area where protection of natural values or biodiversity is approx. 35.000 hectares or approx. 5,7% of the total forest area (there is some overlap).</p> <p>A scientific report (Johannsen et al. 2013) concludes that clear goals and better mapping of species, along with evidence-based measures, are prerequisites for future efforts for biodiversity in Danish forests, and ensuring protection of threatened species, structures and habitats should be prioritised.</p> <p>Two consulted environmental Non-Governmental Organisations (eNGOs) argue that increased demand for biomass feedstock will provide a new incentive for forest managers to remove additional woody biomass from forests, giving rise to a risk that biodiversity will not be sufficiently protected. Especially dead and decaying trees and deadwood on the forest floor have an important role in maintaining biodiversity in Danish forests.</p> <p>Risk conclusion:</p>
	As this Indicator is seen as being partially covered by Indicators 2.1.1 and 2.1.2, for which Low risk must be demonstrated or reached through mitigating measures. The risk for this Indicator is also assessed as Specified. Required risk mitigation measures are the same as outlined for Indicators 2.1.1 and 2.1.2.
Means of Verification	Regional Best Management Practices Supply contracts Assessment of potential impacts at operational level and of measures to minimise impacts Monitoring results Publicly available information on the protection of the identified values Level of enforcement Regional, publicly available data from a credible third party The existence of a strong legal framework in the region

Evidence Reviewed	<p>Danish Forestry Act (Skovloven) - <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a></p> <p>The Danish Nature Protection Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175785">https://www.retsinformation.dk/forms/r0710.aspx?id=175785</a></p> <p>Online map of Natura 2000 areas and protected areas in Denmark: <a href="http://arealinformation.miljoeportal.dk/distribution/">http://arealinformation.miljoeportal.dk/distribution/</a></p> <p>Johannsen, V. K., Dippel, T., Friis Møller, P., Heilmann-Clausen, J., Ejrnæs, R., Larsen, J. B., Hansen, G. K. (2013): Evaluering af indsatsen for biodiversiteten i de danske skove 1992 - 2012. Institut for Geovidenskab og Naturforvaltning, Københavns Universitet. <a href="http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet1992-2012.pdf">http://ign.ku.dk/formidling/publikationer/rapporter/filer-2013/evaluering-biodiversitet1992-2012.pdf</a></p> <p>Pleje af levende hegn. <a href="http://naturstyrelsen.dk/naturbeskyttelse/national-naturbeskyttelse/beskyttede-naturtyper-3/naturplejeportalen/smaabiotoper/smaabiotoperpleje/levende-hegn/">http://naturstyrelsen.dk/naturbeskyttelse/national-naturbeskyttelse/beskyttede-naturtyper-3/naturplejeportalen/smaabiotoper/smaabiotoperpleje/levende-hegn/</a></p>
Risk Rating	<p><input type="checkbox"/> <b>Low Risk</b>                      <input checked="" type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>
Indicative / Possible Mitigation Measure	<p>The goal of the mitigation measure is to ensure that biodiversity is sufficiently protected.</p> <p>This Indicator is seen as being partially covered by Indicators 2.1.1 and 2.1.2, for which Low risk must be demonstrated or reached through mitigating measures. Required risk mitigation measures are the same as outlined for Indicators 2.1.1 and 2.1.2.</p> <p>Due to the technical requirements that the biomass shall fulfill with regards to humidity and density, it is generally not accepted by Energy Producers that decaying wood is used as input in the chips supplied from Danish Forests. However, it must be ensured that biologically valuable dead and decaying and deadwood on the forest floor is not chipped or removed in connection with production and extraction of biomass.</p>

	Indicator
2.2.5	The process of residue removal minimises harm to ecosystems.
Finding	The Danish Forest Act (Article 1) states that the intention of the Forest Act is to maintain and protect the forests of Denmark and increase the forest area. An additional intention is to promote the sustainable management of the forests in Denmark, including an explicitly stated objective of maintaining and increasing the biological diversity of the forests. The Danish Forest Act (Article 2) puts special emphasis on protecting biodiversity in the Danish State Forests.

	<p>Residues are removed in connection with thinnings, selective logging and clear cuts, carried out as an integrated part of the logging operations in forests. It is common practice to remove residues after felling operations, either for the production of biomass feedstock, or for firewood.</p> <p>Some stakeholders mention that there is a risk of increased removal of dead wood from forest stands as a consequence of biomass extraction. Due to the technical requirements that the biomass shall fulfill with regards to humidity and density, it is generally not accepted by Energy Producers that decaying wood is used as input in the chips supplied from Danish Forests. Interview with stakeholders and experience from Forest Management audits confirm that decaying wood is generally not used as input in chip-production and only occur exceptionally.</p> <p>The chipping of GROT (tree branches and tree tops) is likely to result in a reduction of the quantity of small dimension residues left in the forest stands. This practice is considered to be compliant with the criteria because the negative impact on ecosystems caused by removal of small dimension tree branches and tops at the current scale and practice, leaving leaves and branches in the forests, is considered to be low.</p> <p>Removal of residues occur in connection with removal of wood vegetation from protected open habitats like heaths and bogs where the aim is to regulate the wood vegetation in order to maintain the characteristic of these open habitats. As these habitats are generally protected by law the removal of wooden vegetation shall be carried out without negative impact on the ecosystem and consequently it would be illegal if residues are removed in a way that causes harm to these ecosystem.</p> <p>There are currently no reports or other types of evidence indicating that the process of residue removal from forest stands or protected open habitats cause harm to the ecosystems at a scale that result in specified risk. The report 'Ændringer i arealet af beskyttede naturtyper 1995-2008 – En stikprøveundersøgelse', concludes that app 2,6 % of the protected open habitats have been converted during the mentioned period and that part of this conversion has occurred in violation of the Nature protection act, mainly in connection with conversion of meadows to agricultural land. This type of conversion would not normally lead to production of wooden biomass and the evidence mentioned report thereby support the conclusion that the risk of harm to protected open habitats in connection with removal of residues is low.</p> <p>Risk conclusion: Based on the above, it is concluded that the risk to ecosystems from residue removal related to sourcing of feedstock is Low.</p>
<p>Means of Verification</p>	<p>Regional Best Management Practices Supply contracts Assessment of potential impacts at operational level and of measures to minimise impacts Monitoring results Publicly available information on the protection of the identified values Level of enforcement Regional, publicly available data from a credible third party</p>

	The existence of a strong legal framework in the region
Evidence Reviewed	<p>Danish Forestry Act (Skovloven) - <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a></p> <p>The Danish Nature Protection Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175785">https://www.retsinformation.dk/forms/r0710.aspx?id=175785</a></p> <p>Online map of Natura 2000 areas and protected areas in Denmark: <a href="http://arealinformation.miljoeportal.dk/distribution/">http://arealinformation.miljoeportal.dk/distribution/</a></p> <p>Ændringer i arelaet af beskyttede naturtyper 1995-2008 – En Stikprøveundersøgelse. Danmarks Miljøundersøgelser (2011), Faglig rapport nr. 816</p>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.2.6</b>	Negative impacts on ground water, surface water, and water downstream from forest management are minimised (CPET S5b).
Finding	<p>The Nature Protection Act protects surface water interests in Denmark. The Act states that all natural lakes over 100 m<sup>2</sup>, along with all watercourses designated for protection by the local municipal authorities, are protected and that their state cannot be altered. The Forest Act protects all ponds and waterbodies located in forests that are themselves protected by the Forest Act, including those not protected by the Nature Protection Act due to size or lack of designation by authorities.</p> <p>Surface and drinking water interests are well protected by the Environmental Protection Act, the Water Sector Act and the Water Utilities Act. The municipalities are the competent authorities in relation to drinking water interests, and The Danish Agency for Water and Nature Management under the Ministry of Environment and Food monitors drinking water interests at a national level.</p> <p>There is no evidence of forest management threats to water quality, and in fact afforestation projects are sometimes deployed with an aim to improve water quality in an area. The rates of use of pesticides and fertilisers in forestry are much lower compared to volumes used in the agricultural sector. The average annual application of pesticides (active ingredient) is 2.1 kg/ha for the agricultural sector and 0.05 kg/ha for the forestry sector; however, this does not include the annual pesticide application for Christmas trees and greenery production. Additionally, leaching of nitrate from forest areas is typically in the range of 0–10 kg N/year for forests, and typically in the range of 30–120 kg N/year for agricultural land. Based on observations, 70% of forest areas have insignificant nitrate leaching, 20% have some nitrate leaching and for approximately 10% of the forest area, ground water under the forest does not meet drinking water quality requirements due to nitrate</p>

	<p>leaching. This is significantly lower than what would be expected under agricultural land use.</p> <p>Risk conclusion: Based on the above, it is concluded that the risk of negative impacts on ground water, surface water and water downstream from forest management activities related to sourcing of feedstock is Low.</p>
Means of Verification	<p>Regional Best Management Practices Supply contracts Records of BP field inspections Assessment at an operational level of measures designed to minimise impacts on the values identified Interviews with staff Publicly available information on the protection of air quality Level of enforcement</p>
	<p>Regional, publicly available data from a credible third party The existence of a strong legal framework in the region</p>
Evidence Reviewed	<p>Forest Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a> Nature Protection Act: <a href="https://www.retsinformation.dk/forms/R0710.aspx?id=175785">https://www.retsinformation.dk/forms/R0710.aspx?id=175785</a> Environmental Protection Act: <a href="https://www.retsinformation.dk/forms/R0710.aspx?id=132218">www.retsinformation.dk/forms/R0710.aspx?id=132218</a> Ochre Act: <a href="https://www.retsinformation.dk/forms/R0710.aspx?id=127107">www.retsinformation.dk/forms/R0710.aspx?id=127107</a> Watercourse Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=145855">https://www.retsinformation.dk/forms/r0710.aspx?id=145855</a> Water Supply Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175911">https://www.retsinformation.dk/forms/r0710.aspx?id=175911</a> Environmental Damage Act: <a href="https://www.retsinformation.dk/forms/R0710.aspx?id=173182">https://www.retsinformation.dk/forms/R0710.aspx?id=173182</a> Grundvand fra skove - muligheder og problemer. Raulund-Rasmussen, K. &amp; Hansen, K. (eds.). Skovbrugsserien nr. 34, Skov &amp; Landskab, Hørsholm, 2003. 122 s. ill. (<a href="http://videntjenesten.ku.dk/filer/rapporter/skov-og-landskab/sogn34.pdf">http://videntjenesten.ku.dk/filer/rapporter/skov-og-landskab/sogn34.pdf</a>)</p>
Risk Rating	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
2.2.7	Air quality is not adversely affected by forest management activities.
Finding	<p>There is no indication of adverse effect on air quality of any significance from forest management activities in Denmark.</p> <p>All new forest equipment is subject to the Danish implementation of EU Directive regarding pollution from non-roadgoing machinery, which includes tractors and other forest machinery. Furthermore, forestry operations are typically carried out in areas some distance to towns and cities.</p>

	There is no significant use of burning practices in a Danish forestry context.
Means of Verification	Regional Best Management Practices Supply contracts Records of BP field inspections Assessment at an operational level of measures designed to minimise impacts on the values identified Interviews with staff Publicly available information on the protection of air quality Level of enforcement Regional, publicly available data from a credible third party The existence of a strong legal framework in the region
Evidence Reviewed	Bekendtgørelse om begrænsning af luftforurening fra mobile ikke-vejpgående maskiner mv: <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=175847">https://www.retsinformation.dk/Forms/R0710.aspx?id=175847</a>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.2.8</b>	There is controlled and appropriate use of chemicals, and that Integrated pest management (IPM) is implemented wherever possible in forest management activities (CPET S5c).
Finding	<p>The use of chemicals in private forests is limited, however Glyphosate is used to control regeneration of weedy species prior to replanting; and insecticides, including, but not limited to, synthetic pyrethroids, are used to control outbreaks of pine weevil (<i>Hylobius abietis</i>) in the 1–2 years after planting of spruce cultures. All chemical application shall follow the general legislation related to the plant protection products. Requirements – regarding licensing of the personnel in charge of and carrying out the application of chemicals, storage and use of only authorised chemical, use of Personal Protective Equipment and filling and washing of spraying equipment – are well-enforced by responsible authorities. Integrated Pest Management (IPM) practices are implemented. This includes the requirement that chemicals are used only to control significant pressure from insects or weeds, based on monitoring and assessment, and that application is carried out in a responsible manner.</p> <p>The use of any kind of pesticide must be recorded by the forest owner in a spraying journal. The time-limited and use-specific approval of agrochemicals is controlled by the Environmental Protection Agency, which is a part the Danish Ministry of Environment and Food.</p> <p>Risk Conclusion: Based on the above information, the risk for this Indicator has been assessed as Low.</p>



Means of Verification	Existing legislation Level of enforcement Assessment, at an operational level, of measures designed to minimise impacts on the values identified Monitoring records Interviews with staff
Evidence Reviewed	Authorisation of pesticides by the Environmental Protection Agency: <a href="http://eng.mst.dk/topics/pesticides/">http://eng.mst.dk/topics/pesticides/</a>  Summary of requirements for users of chemicals: <a href="http://eng.mst.dk/topics/pesticides/professional-user/">http://eng.mst.dk/topics/pesticides/professional-user/</a>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.2.9</b>	Methods of waste disposal minimize negative impacts on forest ecosystems (CPET S5d).
Finding	There are no significant impacts – from forest management activities or other forest ownermandated activities – due to waste disposal in forests under any type of ownership in Denmark.  Littering and illegal waste disposal in Danish forests do occur along roads, parking spaces and recreational facilities, especially where these occur near cities and recreational sites that are often visited by forest guests. Whenever possible, the source of the waste is identified and police notified.  Risk conclusion: The risk of negative impacts from waste disposal in forest is assessed to be Low.
Means of Verification	Existing legislation Level of enforcement Regional Best Management Practices Operational assessment of potential impacts and of measures to minimise impact
Evidence Reviewed	Environmental Protection Act, Section 43: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=132218#K6">https://www.retsinformation.dk/forms/r0710.aspx?id=132218#K6</a>  Nature Protection Act, Section 28: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=155609">https://www.retsinformation.dk/forms/r0710.aspx?id=155609</a>  Examples of fines: <a href="http://mst.dk/virksomhed-myndighed/affald/affaldsfraktioner/henkastet-affald/oversigt-over-boeder-for-henkastetaffald/">http://mst.dk/virksomhed-myndighed/affald/affaldsfraktioner/henkastet-affald/oversigt-over-boeder-for-henkastetaffald/</a>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>



	Indicator
2.3.1	Analysis shows that feedstock 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.
Finding	<p>The Danish Forest Act gives basic protection from over-exploitation of the forests covered by the Act.</p> <p>According to the Danish National Forest Inventory (NFI) 2014, there has been a net increase of both forest area and standing volume in the period examined (2010–2014). Over the period examined, the standing volume on average increased by an estimated 2.9 million m<sup>3</sup> per year, compared to an annual harvest of 4.8 million m<sup>3</sup> per year, for a total annual increment of 7.7 million m<sup>3</sup> per year.</p> <p>Due to age class distribution in the individual forests, there can be management plan periods where the harvest levels can exceed the increase in standing volume. These harvest levels are justified by means of inventory and growth data, and do not threaten forest productivity or long-term economic viability.</p> <p>Risk Conclusion: Based on the above information, the risk for this Indicator has been assessed as Low.</p>
Means of Verification	Harvesting records, inventory and growth data and yield calculations demonstrate that biomass feedstock harvesting rates are not having significant negative impacts on forest productivity and long-term economic viability Documentation of Operational Practice
Evidence Reviewed	<p>Forest Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267">https://www.retsinformation.dk/forms/r0710.aspx?id=175267</a></p> <p>Thomas Nord-Larsen, Vivian Kvist Johannsen, Torben Riis-Nielsen, Iben M. Thomsen, Erik Schou, Kjell Suadicani og Bruno Bilde Jørgensen (2015): Skove og plantager 2014, Skov &amp; Landskab, Frederiksberg, 2015. 85 s. ill. (<a href="http://ign.ku.dk/samarbejde-raadgivning/myndighedsbetjening/skovovervaagning/intensivskovovervaagning/SP2014.pdf">http://ign.ku.dk/samarbejde-raadgivning/myndighedsbetjening/skovovervaagning/intensivskovovervaagning/SP2014.pdf</a>)</p>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.3.2	Adequate training is provided for all personnel, including employees and contractors (CPET S6d).
Finding	<p>Generally, forest managers and workers in Denmark have a high level of education. Basic training for a skilled forest worker lasts three years, and includes both practical placement and classroom education. The curriculum includes forest mechanization, ergonomics, health and safety, forestry techniques, biology and economics. There is also an option for acquiring formal recognition as a skilled forest worker through a number of 1–2 week courses. In both cases, the Ministry of Education approves the curriculum. Shorter and more specific courses</p> <p>are also available, and even unskilled forest workers and contractors typically attend one or more trainings every year.</p> <p>Danish forests are permitted to cover an area up to 10% with Christmas trees. Within the Christmas tree industry, there are – according to one NGO – problems with illegal employment of staff from Eastern Europe. However, in forests with requirements for longterm management, this is not reported to be an issue. As Christmas trees will not be used in production of feedstock, the risk is not considered relevant in relation to this Risk Assessment.</p> <p>Risk Conclusion: Based on the above information, the risk for this Indicator has been assessed as Low.</p>
Means of Verification	<p>Existing legislation Level of enforcement Training course curricula Records of BP field inspections Training records Interviews with staff Training plans, training records, and records of qualifications</p>
Evidence Reviewed	Information about the education, courses and trainings offered by the forestry school: <a href="http://ign.ku.dk/om/skovskolen/">http://ign.ku.dk/om/skovskolen/</a>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.3.3	Analysis shows that feedstock harvesting and biomass production positively contribute to the local economy including employment.
Finding	<p>There are indicators showing that biomass production contribute positively to Local economy for forest owners, entrepreneurs based regionally or in Denmark and the regional and national transport sector</p> <p>Biomass with origin in Danish forests is mainly supplied through domestic supply chains to energy plants (kraft- varmeværker) in Denmark.</p> <p>Studies made by Naturstyrelsen show that production of biomass in connection with thinning and harvesting in the state forests has increased the commercial volumes over a rotation period by app 10% compared to volume models that do not take the biomass into</p>
	<p>consideration. The increased commercial use of residues in connection with harvesting and thinning contribute moderately to the financial outcome of harvesting and thinning and create an incentive for forest owners and entrepreneurs to manage forest stands (<a href="http://www.skovdyrkerne.dk/dyrkningsinfo/skovdyrkning/for yngelse/traeartsvalg/biomasseo ptimeretskovdyrkning/">http://www.skovdyrkerne.dk/dyrkningsinfo/skovdyrkning/for yngelse/traeartsvalg/biomasseo ptimeretskovdyrkning/</a>).</p> <p>Interview with various stakeholders confirm that logging and processing of biomass (wood chips) is carried out almost entirely by Danish entrepreneurs. The chip production takes place in the forest stands or at processing sites near the forests where logging takes place. The biomass is transported regionally over relatively short distances.</p> <p>Risk Conclusion: Based on the reviewed evidence, it is concluded that there is a low risk of non-compliance with the requirement.</p>
Means of Verification	<p>Verbal and email communication with Forest and The Danish Nature Agency, Private forest owner association and Forest Contractors Association (DM&amp;E)</p> <p>Christian Bang, Aisma Vitina, Jay Sterling Gregg, Hens Henrik Lindboe (2013). Analysis of biomass prices. Future Danish prices for straw, wood chips and wood pellets 'Final Report'. Ea Energy Analysis</p>
Evidence Reviewed	
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.4.1	The health, vitality and other services provided by forest ecosystems are maintained or improved (CPET S7a).

<p>Finding</p>	<p>The Forest Act requires that forest owners maintain forest cover on forest land, as well as establishing ‘robust forests’ with high level of resistance and resilience towards known calamities such as pests, wind and climate change.</p> <p>Over the past decade, The Danish Nature Agency has implemented ‘close to nature’ forest management principles in the state forests and increased the area of stands with domestic and mixed species composition – with the explicit aim of increasing the resistance and resilience of forest stands against climate change, storms and other calamities.</p> <p>In connection with wind throws since the 1990s and as a consequence of subsidiaries favouring the establishment of stands with domestic and/or mixed species, a significant</p>
	<p>proportion of former monocultures was converted to mixed stands with a high ratio of domestic species. In addition, the policies of other types of public subsidiaries have led to conversion of monocultures to mixed forest stands.</p> <p>The health of the forests is continuously monitored as part of the research programme 'Forest Health Development'. The latest report documenting the health of the forests (see reference) concludes that:</p> <p>Overall, the health of the forests was at its lowest in the 1990s. After this, there has been an improvement albeit with ash as a notable exception in recent years. Seeing as the largest portion of the trees monitored are beech, oak, and Norway spruce, the results for these three species are the most reliable.</p> <p>The following conclusions can be drawn on the health of deciduous trees:</p> <ul style="list-style-type: none"> <li>• The health of the beech was poor in the mid-1990s but has been good for the last 10 years.</li> <li>• The health of the oak fluctuates from year to year depending of the prevalence of different species of caterpillars that eat the leaves in the spring.</li> <li>• Overall, the sycamore has suffered few health issues although affected by the drought in the mid-1990s.</li> <li>• The health of the ash has been fluctuating, and since 2005 it has deteriorated due to the fungal disease ash dieback.</li> </ul> <p>The following conclusions can be drawn on the health of the coniferous trees:</p> <ul style="list-style-type: none"> <li>• The Norway spruce was in poor health in the 1980s and 1990s. However, for the past 10 years its state of health has been satisfactory.</li> <li>• Overall, the health of the Sitka spruce is worse than that of the Norway spruce. Its state of health is slowly improving but suffered a setback in 2007-08 because of a greenfly infestation.</li> <li>• The health of the Scots pine and other species of pine was poor in the 1980s due to a fungal disease. Their health has since improved.</li> </ul> <p>Other coniferous trees such as species of larch and silver fir have, generally speaking, been fairly healthy since the mid-1990s.</p>

Means of Verification	Review of scientific reports and data
Evidence Reviewed	Results from the national Forest Vitality monitoring program: Skovsundheden i Danmark ( <a href="http://ign.ku.dk/samarbejde-raadgivning/myndighedsbetjening/skovsundhed/">http://ign.ku.dk/samarbejde-raadgivning/myndighedsbetjening/skovsundhed/</a> )
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.4.2	Natural processes, such as fires, pests and diseases are managed appropriately (CPET S7b).
Finding	<p>The overall political framework for the forests in Denmark is defined in the legislation and within the National Forest Program from 2002 which is under revision through a process initiated in 2014 (<a href="http://naturstyrelsen.dk/naturbeskyttelse/skovbrug/lovgivning/nationaltskovprogram/">http://naturstyrelsen.dk/naturbeskyttelse/skovbrug/lovgivning/nationaltskovprogram/</a>).</p> <p>The Forest Act requires that forest owners maintain forest cover on forest land, as well as establishing 'robust forests' with high level of resistance and resilience towards known calamities such as pests, wind and climate change.</p> <p>Generally, fires, pests and diseases occur at a small scale in Danish forests and are managed by the forest owner.</p> <p>The main natural process that has a negative impact on forest stands is storms that cause wind throw. It is the responsibility of the forest owners and/or managers to apply silvicultural methods that improve the stability of forest stands.</p> <p>Incentives to establish robust forest stands are built into various subsidiaries for private forest owners (stormfaldsordningen, regeneration, and reforestation).</p> <p>Replanting after wind throw in private forests is subsidised through an insurance system which covers most forest owners.</p> <p>State forests are managed according to 'close to nature' forest management principles (ref. Handlingsplan for Naturnær Skovdrift) with the intent to promote species composition and forest structure with high level of resistance and resilience.</p> <p>The management of other types of pests, fires and diseases is carried out by each forest owner, and is generally based on knowledge and guidance provided by internal forest staff, forestry consultants, forestry magazines and other channels of information.</p> <p>Risk Conclusion: Based on the reviewed evidence, it is concluded that there is a low risk of non-compliance with the requirement.</p>

Means of Verification	Review of documentation Interviews with private and State Forest management staff General knowledge about forest practices collected from general engagement with the forest sector
Evidence Reviewed	Skov- og Naturstyrelsen (2005) Handlingsplan for Naturnær Skovdrift i Statsskovene. Skov- og Naturstyrelsen og J. Bo Larsen (2005). Katalog over Skovudviklingstyper I Danmark Hans Peter Ravn (2016). Typografsituationen april/maj 2016. Videntjenesten, Københavns Universitet Videntjenesten, Københavns Universitet, Skader på Skov
	Results from the national Forest Vitality monitoring program: Skovsundheden i Danmark ( <a href="http://ign.ku.dk/samarbejde-raadgivning/myndighedsbetjening/skovsundhed/">http://ign.ku.dk/samarbejde-raadgivning/myndighedsbetjening/skovsundhed/</a> )
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.4.3</b>	There is adequate protection of the forest from unauthorised activities, such as illegal logging, mining and encroachment (CPETS7c).
Finding	In general, there is a high level of law enforcement in Denmark. Illegal logging and encroachment are not issues in Denmark, as forests are so small and forest activities are in most cases visible to the public and forest management staff from roads.  The types of illegal activities most commonly encountered in Denmark are illegal littering, stray dogs, unauthorised mountain biking, theft of firewood and, occasionally, poaching. Illegal or unauthorised activities in Danish forests generally have limited economic or biological impact.  Risk conclusion: It is assessed that the risk from unauthorised activities in Danish forests is Low.
Means of Verification	Records of BP field inspections Monitoring records Interviews with staff Interviews with stakeholders Publicly available information (news and media)
Evidence Reviewed	Interviews with officials from The Danish Nature Agency and representatives from the Danish Forest Owners' Association.
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.5.1	The legal, customary and traditional tenure and use rights of indigenous peoples and local communities related to the forest, are identified, documented and respected (CPET S9).
Finding	<p>There are no indigenous people with traditional land use rights in Denmark and this requirement is therefore not applicable; The following discusses forest use rights for the general public, including local communities.</p> <p>According to the Nature Protection Act (Article 23), the public has the right to access both public and private forest by foot, bicycle and horseback (except areas used by the military). In public forests, access is permitted to the entire forest area, while the public has a right to private forests only by roads or trails from 6am until sunset. Fencing out or restricting public access is not permitted. A private forest owner is able to restrict access by bicycles and horseback, even though in certain cases such restrictions can be overruled by the municipality.</p> <p>Gathering of mushrooms, berries and mosses for private use is permitted, but only in limited amounts (BEK nr 1317 af 21/12/2011, §28). In private forests, however, only what can be reached from the roads or trails may be collected. It is permitted to cut branches from deciduous trees with a height of more than 10 metres, while branches may be collected from both deciduous and coniferous trees that are dead.</p> <p>There is no general right to collect firewood. This is only permissible following agreement with the forest owner.</p> <p>Description of Risk There are a few cases of conflict occurring between private forest owners and people accessing the forests (personal communication); such cases are being reported to and dealt with by the municipality. Often these cases are resolved according to the legislation and requirements are clarified with the forest owners or the public users of the forests. The cases are rarely brought to court.</p> <p>According to a 2014 report from the Outdoor Council, there are no indications of systemic conflicts with forest owners; with the same report stating that 97% of visitors are happy with their visit to the forests and mainly use the forest for recreational purposes.</p> <p>Risk conclusion: The risk for violation of local communities' use rights is assessed as Low.</p>
Means of Verification	<p>Customary use rights are identified and documented</p> <p>Interviews with local communities and other stakeholders, indicate that their rights are being respected</p> <p>Appropriate mechanisms exist to resolve disputes</p> <p>Agreements exist regarding these rights</p>

Evidence Reviewed	<p>Act on public access to nature:  <a href="https://www.retsinformation.dk/Forms/R0710.aspx?id=139348">https://www.retsinformation.dk/Forms/R0710.aspx?id=139348</a></p> <p>Danskernes brug af naturen - og omfanget af generende oplevelser i mødet med andre brugere ( The Outdoor Council - Report on the Danes' use of nature )  <a href="http://www.friluftsradet.dk/media/974418/rapport_danskernes_brug_af_naturen.pdf">http://www.friluftsradet.dk/media/974418/rapport_danskernes_brug_af_naturen.pdf</a>                  :</p>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.5.2	Production of feedstock does not endanger food, water supply or subsistence means of communities, where the use of this specific feedstock or water is essential for the fulfilment of basic needs.
Finding	<p>Subsistence needs for local communities are assessed as being not applicable for Denmark.</p> <p>Risk conclusion:                      Based on the above, it is concluded that there is a low risk of non-compliance with the requirement.</p>
Means of Verification	
Evidence Reviewed	
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.6.1	Appropriate mechanisms are in place for resolving grievances and disputes, including those relating to tenure and use rights, to forest management practices and to work conditions.
Finding	<p>Grievances and disputes, including those relating to tenure and usage rights, forest management practices and work conditions, are regulated by legislation, namely, the Constitution, the Law of Obligations Act, the Labour Code etc.</p> <p>The detailed procedures, duties and responsibilities of involved persons are defined in the legislation. The legislation and justice system provide a route for appeal should people be dissatisfied with the outcome of the dispute resolution process.</p> <p>The disputes related to work conditions shall be resolved according to administrative procedures and labour legislation. Prevailing practice is to include additional dispute resolution-related statements of clarification in the working agreements. In addition,</p>



	<p>the trade unions can assist in resolving disputes over working conditions and can use their own procedures and agreements.</p> <p>Risk conclusion:</p>
	<p>Based on the reviewed evidence it is concluded that there is a low risk of non-compliance with the requirement.</p>
Means of Verification	<p>Existing legislation Level of enforcement Regional Best Management Practices Supply contracts</p>
Evidence Reviewed	
Risk Rating	<p><input checked="" type="checkbox"/> <b>Low Risk</b>      <input type="checkbox"/> <b>Specified Risk</b>      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
2.7.1	<p>Freedom of Association and the effective recognition of the right to collective bargaining are respected.</p>
Finding	<p>The Danish Act on Freedom of Association in the Labour Market protects the rights of workers in relation to their being members of workers' unions, and protects workers from unfair dismissal.</p> <p>Denmark has ratified 72 ILO conventions and one ILO Protocol, including Convention 87 on the freedom of association and protection of the right to organise, and Convention 98 on the right to organise and collective bargaining.</p> <p>The International Trade Union Confederation (IUTC) assigns Denmark a rating of 1, which is the best (on a scale from 1 to 5+) in the ITUC Global Rights Index 2014. This assessment is given for countries where "Collective labour rights are generally guaranteed. Workers can freely associate and defend their rights collectively with the government and/or companies and can improve their working conditions through collective bargaining. Violations against workers are not absent but do not occur on a regular basis."</p> <p>Bygge-, Anlægs- og Trækartellet (The Cartel of Unions in the Building, Construction and Wood sectors) concludes that the freedom of association and right to collective bargaining is respected for workers in relation of harvest of biomass feedstock in Danish forests, when this work is carried out by Danish workers or Danish contractors. They do not know if this is the case for workers working for foreign contractors, and they do not know how much work is carried out by foreign contractors in relation to feedstock production in Danish forests.</p> <p>Foreign service providers in Denmark have to register in the Registry for Foreign Service Providers (RUT-registeret), or face the risk of a 10000 dkr fine. When companies have registered in the RUT registry, government authorities gain</p>

	<p>knowledge of the size of the company and the business area the services are provided in, and the companies can then be subject to inspection from government authorities. A look-up in the publicly available RUT-registry returns names of 22 companies, all small (1 or 2-4 employees) and medium</p>
	<p>size (5-9 and 10 -19 employees), working in forestry related services, excluding production of Christmas trees. This limited level of foreign contractors corresponds well with estimates from the employer's association GLS-A.</p> <p>Description of Risk In Denmark there is relatively high enforcement of regulations relating to the working environment, this also includes registered foreign contractors. Most employees in Denmark are covered by a collective agreement. Companies covered by a collective agreement shall follow the law.</p> <p>Risk Conclusion: Based on the available information and the assumption that there is currently very little activity relating to feedstock production being carried out by unregistered foreign contractors in Danish forests, the risk for this indicator has been assessed as Low.</p>
Means of Verification	<p>Existing legislation Level of enforcement Regional, publicly available data from a credible third party Publicly available information (news and media)</p>
Evidence Reviewed	<p>ITUC Global Rights Index 2014: <a href="http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf">http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf</a></p> <p>Overview of ILO conventions ratified by Denmark: <a href="http://www.ilo.org/dyn/normlex/en/">http://www.ilo.org/dyn/normlex/en/</a></p> <p>Ministry of Employment, Overview of applicable legislation: <a href="http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx">http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx</a></p> <p>Registry for Foreign Service Providers: <a href="https://erhvervsstyrelsen.dk/registrering-afudenlandske-tjenesteydere-rut">https://erhvervsstyrelsen.dk/registrering-afudenlandske-tjenesteydere-rut</a></p>
Risk Rating	<p><input checked="" type="checkbox"/> <b>Low Risk</b>      <input type="checkbox"/> <b>Specified Risk</b>      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
<b>2.7.2</b>	Feedstock is not supplied using any form of compulsory labour.
Finding	The Work Environment Act aims to create a safe and healthy work environment at all times in accordance with society's technical and social development. The Act is the basis for companies to resolve health and safety issues with guidance from social organisations, and guidance and control by the Labour Inspectorate.

	<p>Denmark has ratified 72 ILO conventions and one ILO Protocol, including Conventions 29 and 105 on forced and bonded labour.</p> <p>The International Trade Union Confederation (IUTC) assigns Denmark a rating of 1, which is the best (on a scale from 1 to 5+) in the ITUC Global Rights Index 2014. This assessment is given for countries where “Collective labour rights are generally guaranteed. Workers can freely associate and defend their rights collectively with the government and/or companies and can improve their working conditions through collective bargaining. Violations against workers are not absent but do not occur on a regular basis.”</p> <p>Bygge-, Anlægs- og Trækartellet (The Cartel of Unions in the Building, Construction and Wood sectors) concludes that there is no occurrence of forced and bonded labour in relation of harvest of biomass feedstock in Danish forests.</p> <p>Description of Risk In Denmark, there is high enforcement of regulations relating to the work environment, for safety, minimum age of work, and hazardous work. There is no evidence of compulsory labour in Denmark.</p> <p>Risk Conclusion: Based on the available information, the risk for this indicator has been assessed as Low.</p>
Means of Verification	<p>Existing legislation Level of enforcement Regional, publicly available data from a credible third party Publicly available information (news and media)</p>
Evidence Reviewed	<p>ITUC Global Rights Index 2014: <a href="http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf">http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf</a></p> <p>Overview of ILO conventions ratified by Denmark: <a href="http://www.ilo.org/dyn/normlex/en/">http://www.ilo.org/dyn/normlex/en/</a></p> <p>Ministry of Employment, Overview of applicable legislation: <a href="http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx">http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx</a></p>
Risk Rating	<p><input checked="" type="checkbox"/> <b>Low Risk</b>      <input type="checkbox"/> <b>Specified Risk</b>      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
2.7.3	Feedstock is not supplied using child labour.

Finding	<p>The Work Environment Act aims to create a safe and healthy work environment at all times in accordance with society’s technical and social development. The Act is the basis for companies to resolve health and safety issues with guidance from social organisations, and guidance and control by the Labour Inspectorate.</p> <p>Denmark has ratified 72 ILO conventions and one ILO Protocol, including Convention 138 on minimum age for workers.</p>
	<p>The International Trade Union Confederation (IUTC) assigns Denmark a rating of 1, which is the best (on a scale from 1 to 5+) in the ITUC Global Rights Index 2014. This assessment is given for countries where “Collective labour rights are generally guaranteed. Workers can freely associate and defend their rights collectively with the government and/or companies and can improve their working conditions through collective bargaining. Violations against workers are not absent but do not occur on a regular basis.”</p> <p>Bygge-, Anlægs- og Trækartellet (The Cartel of Unions in the Building, Construction and Wood sectors) concludes that there is no occurrence of child labour in relation of harvest of biomass feedstock in Danish forests.</p> <p>Description of Risk In Denmark, there is high enforcement of regulations relating to the work environment, for safety, minimum age of work, and hazardous work. There is no evidence of child labour in Denmark.</p> <p>Risk Conclusion: Based on the available information, the risk for this indicator has been assessed as Low.</p>
Means of Verification	<p>Existing legislation Level of enforcement Regional, publicly available data from a credible third party Publicly available information (news and media)</p>
Evidence Reviewed	<p>ITUC Global Rights Index 2014: <a href="http://www.ituccsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf">http://www.ituccsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf</a></p> <p>Overview of ILO conventions ratified by Denmark: <a href="http://www.ilo.org/dyn/normlex/en/">http://www.ilo.org/dyn/normlex/en/</a></p> <p>Ministry of Employment, Overview of applicable legislation: <a href="http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx">http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx</a></p>
Risk Rating	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
<b>2.7.4</b>	Feedstock is not supplied using labour which is discriminated against in respect of employment and occupation.

<p>Finding</p>	<p>The Act relating to equal treatment of men and women ensures equal treatment of men and women in the occupational schemes and covers the working population, including selfemployed, workers who are temporarily out of work due to illness, maternity, accident or involuntary unemployment and persons seeking employment, and retired and disabled workers. The law is also applicable in relation to insurance and related financial services.</p> <p>Denmark has ratified 72 ILO conventions and one ILO Protocol, including Convention 100 on equal remuneration and Convention 111 on discrimination.</p> <p>The International Trade Union Confederation (IUTC) assigns Denmark a rating of 1, which is the best (on a scale from 1 to 5+) in the ITUC Global Rights Index 2014. This assessment is given for countries where “Collective labour rights are generally guaranteed. Workers can freely associate and defend their rights collectively with the government and/or companies and can improve their working conditions through collective bargaining. Violations against workers are not absent but do not occur on a regular basis.”</p> <p>Bygge-, Anlægs- og Trækartellet (The Cartel of Unions in the Building, Construction and Wood sectors) concludes that there is no occurrence of child labour in relation of harvest of biomass feedstock in Danish forests.</p> <p>According to a report from the European Commission Directorate-General for Justice and Consumers, the most recent case law concerning anti-discrimination in the workplace has dealt with disability and age. There has been no recent cases related to the forestry sector or the supply of feedstock.</p> <p>Description of Risk</p> <p>In Denmark there is relatively high enforcement of regulations relating to the work environment, for safety, minimum age of work, and hazardous work. Most employees in Denmark are covered by a collective agreement. Companies covered by a collective agreement shall follow the law.</p> <p>Risk Conclusion:</p> <p>Based on the available information, the risk for this category has been assessed as Low.</p>
<p>Means of Verification</p>	<p>Existing legislation                      Level of enforcement                      Regional, publicly available data from a credible third party                      Publicly available information (news and media)</p>
<p>Evidence Reviewed</p>	<p>European Commission (Report by Pia Justesen): Country report Non-discrimination Denmark 2014. (<a href="http://www.equalitylaw.eu/downloads/3678-denmark-country-report-pdf1-26-mb">http://www.equalitylaw.eu/downloads/3678-denmark-country-report-pdf1-26-mb</a>)</p> <p>ITUC Global Rights Index 2014:  <a href="http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf">http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf</a></p> <p>Overview of ILO conventions ratified by Denmark:  <a href="http://www.ilo.org/dyn/normlex/en/">http://www.ilo.org/dyn/normlex/en/</a></p> <p>Ministry of Employment, Overview of applicable legislation:  <a href="http://bm.dk/da/Love%20og%20Regler/Gældende%20love%20og%20regler.aspx">http://bm.dk/da/Love%20og%20Regler/Gældende%20love%20og%20regler.aspx</a></p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>      <input type="checkbox"/> <b>Specified Risk</b>      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
2.7.5	Feedstock is supplied using labour where the pay and employment conditions are fair and meet, or exceed, minimum requirements.
inding	<p>The Act relating to equal treatment of men and women ensures equal treatment of men and women in the occupational schemes and covers the working population, including selfemployed, workers who are temporarily out of work due to illness, maternity, accident or involuntary unemployment and persons seeking employment, and retired and disabled workers. The law is also applicable in relation to insurance and related financial services.</p> <p>According to the Holiday Act, holidays and payments for employees are regulated. An employee is entitled to holiday pay or salary during holidays.</p> <p>Denmark has ratified 72 ILO conventions and one ILO Protocol, but not Convention 95 on protection of wages or Convention 131 on minimum wage fixing.</p> <p>The International Trade Union Confederation (IUTC) assigns Denmark a rating of 1, which is the best (on a scale from 1 to 5+), in the ITUC Global Rights Index 2014. This assessment is given for countries where “Collective labour rights are generally guaranteed. Workers can freely associate and defend their rights collectively with the government and/or companies and can improve their working conditions through collective bargaining. Violations against workers are not absent but do not occur on a regular basis.”</p> <p>Bygge-, Anlægs- og Trækartellet (The Cartel of unions in the Building, Construction and Wood sectors) concludes that pay and employment conditions are fair and meet, or exceed, minimum requirement in relation of harvest of biomass feedstock in Danish forests, when this work is carried out by Danish workers or Danish contractors. They do not know if this is the case for workers working for foreign contractors, and they do not know how much work is carried out by foreign contractors in relation to feedstock production in Danish forests. Several stakeholders mention that Danish contractors regularly employ workers from other countries (mainly EU Countries) for manual work such as logging and planting. Forest organizations state that the use of manual work in connection with harvesting and biomass production is declining due to changes in stand structures and introduction of new technology. Some stakeholders mention that there can be a few cases where mainly nonDanish forest workers receive average payments that do not meet minimum requirements as specified in the collective agreement between 3F and GLS-A. There are no statistics about the level of payment in these cases but stakeholders evaluate that it is not significantly below the level required in the collective agreements.</p> <p>Three major organizations (Skovdyrkerforeningen Vestjylland, HedeDanmark and Naturstyrelsen) producing biomass, have commented that they only use contractors registered in the Danish company registry. The large forest management company HedeDanmark in 2015 asked their contractors to reply to a questionnaire, and of the almost 400 replies, all have a Danish Company Registry Number, more than 80% only employ Danish citizens, more than 75 % have entered into the common agreement with the union, and all declared that they follow Danish legislation with</p>

	<p>regard to salaries, holiday payments and taxes. This is of special significance due to the position and size of the organization, and the number of contractors they employ. These 400 contractors will constitute a large proportion of all forest contractors in Denmark. The Danish Agency for Water and Nature Management specifically require contractors to ensure that employment conditions for their employees meets the minimum requirements as specified in collective agreement between 3F and The Danish Nature Agency and request contractors to sign a comprehensive “Supplier clause” which gives the Agency the right to monitor compliance with this conditions.</p> <p>Foreign service providers in Denmark have to register in the Registry for Foreign Service Providers (RUT-registeret), or face the risk of a 10000 dkr fine. When companies have registered in the RUT registry, government authorities gain knowledge of the size of the company and the business area the services are provided in, and the companies can then be subject to inspection from government authorities. A look-up in the publicly available RUT-registry returns names of 22 companies, all small (1 or 2-4 employees) and medium size (5-9 and 10 -19 employees), working in forestry related services, excluding production of Christmas trees. This limited level of foreign contractors corresponds well with estimates from the employer’s association GLS-A.</p> <p>Description of Risk</p> <p>NEPCon evaluates that Denmark has a high level of enforcement of regulations relating to the working environment, and this also includes registered foreign contractors. Most employees in Denmark are covered by a collective agreement, or receive wages and benefits at the levels specified in collective agreements between 3F and GLS-A and between 3F and The Danish Nature Agency. There is no legally determined minimum wage in Denmark. It cannot be ruled out that some forest workers receive average payments that do not meet minimum requirements as specified in the collective agreements between 3F and GLS-A and between 3F and The Danish Nature Agency. However, based on information provided by a range of stakeholders and currently available evidence, it is assessed that the scale and impact of the violations does not constitute a specified risk in relation to the supply of feedstock for biomass production.</p> <p>Risk Conclusion: Based on the available information and that there is currently very little activity relating to feedstock production being carried out by unregistered foreign contractors in Danish forests, the risk for this indicator has been assessed as Low</p>
<p>Means of Verification</p>	<p>Existing legislation Level of enforcement Regional, publicly available data from a credible third party Publicly available information (news and media)</p>



Evidence Reviewed	<p>ITUC Global Rights Index 2014:  <a href="http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf">http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf</a></p> <p>Overview of ILO conventions ratified by Denmark: <a href="http://www.ilo.org/dyn/normlex/en">http://www.ilo.org/dyn/normlex/en</a></p> <p>Ministry of Employment, Overview of applicable legislation:  <a href="http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx">http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx</a></p> <p>Registry for Foreign Service Providers: <a href="https://erhvervsstyrelsen.dk/registrering-afudenlandske-tjenesteydere-rut">https://erhvervsstyrelsen.dk/registrering-afudenlandske-tjenesteydere-rut</a></p>
Risk Rating	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
2.8.1	<p>Appropriate safeguards are put in place to protect the health and safety of forest workers (CPET S12).</p>
Finding	<p>The Work Environment Act aims to create a safe and healthy work environment at all times in accordance with society’s technical and social development. The Act is the basis for companies to resolve health and safety issues with guidance from social organisations, and guidance and control by the Labour Inspectorate.</p> <p>The employer has to ensure that working conditions are acceptable according to health and safety, and has to develop a written assessment of the health and safety of the working environment (in Danish; arbejdsmarkedspilsvurdering, APV). The type of work and the size of the organisation must be considered, and the APV shall be revised either when organisational changes occur or every third year. The APV shall be accessible to management, employees and the supervising authorities.</p> <p>Denmark has ratified 72 ILO conventions and one ILO Protocol, including Convention 148 on working environment and Convention 155 on occupational health and safety.</p> <p>Description of Risk                  According to statistics from the Labour Inspectorate, forestry work – together with agriculture –has a high risk of work-related accidents, but lower than (e.g.) construction, slaughterhouse, water, or sewer work (Arbejdstilsynet 2013). Companies are required to make an evaluation of their work place, but both companies and individual entrepreneurs are subject to health and safety legislation, and can be controlled by the Labour Inspectorate.</p> <p>An assessment of work environments for a variety of industries was carried out in Denmark in 2014. The forestry industry was placed in a joint category with agriculture and fisheries; and as a whole performed better than the mean when responding to the statements “the management always encourages safety at work” and “[Management provides] guidance and instruction for safe execution”, which indicates sufficient enforcement of the Work Environment Act. In the same assessment, respondents indicated that minor accidents are an accepted part of the work, with the</p>



	<p>percentage of work-related accidents also higher than the mean of all other categories. However, no evidence was found that the law was not enforced (National Research Centre for the Working Environment 2014). The study on the working environment showed no issues of violation of health and safety legislation.</p> <p>In general there is a relatively extended focus on the work environment and safety in Denmark. The employer is required by the Work Environment Act to correctly instruct the workers on the use of (e.g.) machinery. According to the Danish Forest Association there may be cases where this obligation is not respected. However, in general, according to both the Danish Forest Association and The Danish Nature Agency, accidents occurring in Danish forestry are not related to violation of the law. In general the risk is also low because employees in Denmark are aware of their rights and of the legislation related to health and safety.</p> <p>The International Trade Union Confederation (IUTC) assigns Denmark a rating of 1, which is the best (on a scale from 1 to 5+) in the ITUC Global Rights Index 2014. This assessment is given for countries where “Collective labour rights are generally guaranteed. Workers can freely associate and defend their rights collectively with the government and/or companies and can improve their working conditions through collective bargaining. Violations against workers are not absent but do not occur on a regular basis.”</p> <p>Bygge-, Anlægs- og Trækartellet (The Cartel of Unions in the Building, Construction and Wood sectors) concludes that health and safety conditions are sufficient to protect workers in relation of harvest of biomass feedstock in Danish forests, when this work is carried out by Danish workers or Danish contractors. They do not know if this is the case for workers working for foreign contractors, and they do not know how much work is carried out by foreign contractors in relation to feedstock production in Danish forests.</p> <p>Foreign service providers in Denmark have to register in the Registry for Foreign Service Providers (RUT-registeret), or face the risk of a 10000 dkr fine. When companies have registered in the RUT registry, government authorities gain knowledge of the size of the company and the business area the services are provided in, and the companies can then be subject to inspection from government authorities. A look-up in the publicly available RUT-registry returns names of 22 companies, all small (1 or 2-4 employees) and medium size (5-9 and 10 -19 employees), working in forestry related services, excluding production of Christmas trees. This limited level of foreign contractors corresponds well with estimates from the employer’s association GLS-A.</p> <p><b>Description of Risk</b>          In Denmark there is relatively high enforcement of regulations relating to the working environment and workers health and safety, this also includes registered foreign contractors.</p> <p><b>Risk Conclusion:</b>          Based on the available information and that there is currently very little activity relating to feedstock production being carried out by unregistered foreign contractors in Danish forests, the risk for this indicator has been assessed as Low</p>
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Means of Verification	Existing legislation Level of enforcement Regional, publicly available data from a credible third party Publicly available information (news and media)
Evidence Reviewed	ITUC Global Rights Index 2014: <a href="http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf">http://www.itucsi.org/IMG/pdf/survey_ra_2014_eng_v2.pdf</a>  Overview of ILO conventions ratified by Denmark: <a href="http://www.ilo.org/dyn/normlex/en/">http://www.ilo.org/dyn/normlex/en/</a>  Ministry of Employment, Overview of applicable legislation: <a href="http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx">http://bm.dk/da/Love%20og%20Regler/Gaeldende%20love%20og%20regler.aspx</a>  Registry for Foreign Service Providers: <a href="https://erhvervsstyrelsen.dk/registrering-afudenlandske-tjenesteydere-rut">https://erhvervsstyrelsen.dk/registrering-afudenlandske-tjenesteydere-rut</a>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <input type="checkbox"/> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
2.9.1	Feedstock is not sourced from areas that had high carbon stocks in January 2008 and no longer have those high carbon stocks.
Finding	Wetlands, peatlands and old mature forests stands are considered to have high carbon stocks.  According to the Forest Act and the Nature Conservation Act, wetlands such as peatlands and bogs are strictly protected and the majority of these areas are registered in publically available databases.
	Most of the Danish forest area is regulated by the Forest Act and is set aside as forest reserves (Fredskov). Currently there is no evidence that forestry practice has an impact on any remaining, important large-scale forests.  Forest operations are planned and implemented in accordance with the requirements in the Forest Act which require protection of wetlands and peatlands.  In forests that are not reserved as forest stands (fredskov), wetlands and peatlands are protected under the Nature Protection Act (Naturbeskyttelsesloven) and there are no reports available indicating feedstock is sourced from such areas.  <b>Risk conclusion:</b> Based on the reviewed evidence it is concluded that there is a low risk of non-compliance with the requirement.
Means of Verification	Maps Procedures and records Regional, publicly available data from a credible third party The existence of a strong legal framework in the region

Evidence Reviewed	Danish Forestry Act -: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175267-">https://www.retsinformation.dk/forms/r0710.aspx?id=175267-</a> The Danish Nature Protection Act: <a href="https://www.retsinformation.dk/forms/r0710.aspx?id=175785">https://www.retsinformation.dk/forms/r0710.aspx?id=175785</a> <a href="http://www.miljoportal.dk">http://www.miljoportal.dk</a>
Risk Rating	<input checked="" type="checkbox"/> <b>Low Risk</b> <b>Specified Risk</b> <input type="checkbox"/> <b>Unspecified Risk at RA</b>

	Indicator
<b>2.9.2</b>	Analysis demonstrates that feedstock harvesting does not diminish the capability of the forest to act as an effective sink or store of carbon over the long term.
Finding	<p>There is a comprehensive collection of the data used for the calculation of the standing volume of growing stock as well as the effect of biomass harvesting and other factors affecting the total growing stock of the forest. The scientific work and its results are available at ign.ku.dk:</p> <ul style="list-style-type: none"> <li>- <a href="http://ign.ku.dk/english/research/forest-nature-biomass/forest-resourceassessment-bioenergy/">http://ign.ku.dk/english/research/forest-nature-biomass/forest-resourceassessment-bioenergy/</a></li> <li>- <a href="http://ign.ku.dk/samarbejderaadgivning/myndighedsbetjening/skovovervaagning/danmarks-skovstatistik/">http://ign.ku.dk/samarbejderaadgivning/myndighedsbetjening/skovovervaagning/danmarks-skovstatistik/</a></li> </ul> <p>The inventory of Danish forest resources conducted in 2014 (source: Skove og Plantager 2014) shows that the growing stock in Danish forests make a total of 130 million cubic metres equalling 209 cubic metres per hectare. 'The growing stock in the forests has seen a significant increase since the 2000 inventory (Figure 1.5). This development is related to the continuous expansion of woodland areas and is most likely also linked to an increase in growing stock per hectare. However, a significant part of the cause is that the method for calculating the volume of growing stock is no longer based on the distribution of age and species.' 'The largest total growing stock can be found in Central Jutland, whereas the largest density of growing stock per hectare occurs in the eastern part of the country.'</p> <p>The standing volume of growing stock currently absorbs 40 million tonnes of carbon with a slightly upward trend due to the fact that the annual growth in the forests exceeds the annual felling.</p> <p>According to the report 'Muligheder for bæredygtig udvidelse af dansk produceret vedmasse 2010-2100. Perspektiver for skovenes bidrag til grøn omstilling mod en biobaseret økonomi', it is possible to make very substantial improvements on the figures for harvest and storage. The report assesses that certain initiatives pertaining to the cultivation of the forests could increase the harvest of wood by 30% by 2050 all the while the amount of carbon stored in the forests will be rise correspondingly. Especially the portion of trees used for the production of energy could be increased. Currently making up approximately 2% of our energy consumption, trees could comprise up to 5% already by 2020, more than 7% in 2050, and around 13% in 2100. An equivalent increase in the amount of carbon stored by the forests would mean that the annual displacement of fossil carbon and the accumulation of carbon in</p>

	<p>forests and forest products would rise from a level of less than 5 million tonnes of CO2 per annum to 6 million tonnes in 2020, 7-9 tonnes in 2050, and 10-13 million tonnes in 2100, i.e. an increase from less than 10% to more than 20% of our current annual emission of CO2 (the level of 2011). If the target of reducing our emission of carbon dioxide with 80-95% is reached, the amount of carbon accumulated by forests would constitute more than half of the annual emissions in 2050 and be on the same level by 2100.</p> <p>Risk conclusion: Based on the reviewed evidence it is concluded that there is a low risk of non-compliance with the requirement</p>
<p>Means of Verification</p>	<p>Conference presentations Reports and scientific articles with results of analysis of carbon stocks Analysis of historic and present carbon uptake rates Regional, publicly available data from a credible third party The existence of a strong legal framework in the region</p>
<p>Evidence Reviewed</p>	<p>Thomas Nord-Larsen, Vivian Kvist Johannsen, Torben Riis-Nielsen, Iben M. Thomsen, Erik Schou, Kjell Suadicani og Bruno Bilde Jørgensen (2015): Skove og plantager 2014, Skov &amp; Landskab, Frederiksberg, 2015. 85 s. ill.</p> <p>Graudal, L., Nielsen, U.B., Schou, E., Thorsen, B.J., Hansen, J.K., Bentsen, N.S., og Johannsen, V.K. (2013): Muligheder for bæredygtig udvidelse af dansk produceret vedmasse 2010-2100. Perspektiver for skovenes bidrag til grøn omstilling mod en biobaseret økonomi, Institut for Geovidenskab og Naturforvaltning, 86 s. ill.</p> <p>Suadicani, M. K. (2010). Carbon sequestrations and emissions from harvested wood products - different approaches and consequences. Forest &amp; Landscape, University of Copenhagen. (Working Papers / Forest &amp; Landscape ; No. 56).</p> <p>HedeDanmark, Skovdyrkerne, Dansk Skovforening (2011). Danske skove kan fordoble produktionen af træ til energy. Baggrundsnotat udarbejdet november 2011</p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>

	Indicator
<p>2.10.1</p>	<p>Genetically modified trees are not used.</p>

<p>Finding</p>	<p>There is no commercial use of GM trees in Denmark. All approved GMO species within the EU (also covering Denmark) can be identified in the EU register of authorised GMO (<a href="http://ec.europa.eu/food/dyna/gm_register/index_en.cfm">http://ec.europa.eu/food/dyna/gm_register/index_en.cfm</a>); and no tree (i.e. woodproducing) species are registered. A number of trial releases have occurred for GMO in Denmark, but none was for tree species. All trial releases must be subject to a process of public consultation. There are no reports of illegal use of GMO species in Danish forestry.</p> <p>Risk Conclusion: Based on the available information, the risk for this Indicator has been assessed as Low.</p>
<p>Means of Verification</p>	<p>EU register of authorised GMO: <a href="http://ec.europa.eu/food/dyna/gm_register/index_en.cfm">http://ec.europa.eu/food/dyna/gm_register/index_en.cfm</a> Global Forest Registry: <a href="http://www.globalforestregistry.org/">http://www.globalforestregistry.org/</a></p>
<p>Evidence Reviewed</p>	<p>EU register of authorised GMO: <a href="http://ec.europa.eu/food/dyna/gm_register/index_en.cfm">http://ec.europa.eu/food/dyna/gm_register/index_en.cfm</a> Global Forest Registry: <a href="http://www.globalforestregistry.org/">http://www.globalforestregistry.org/</a></p>
<p>Risk Rating</p>	<p><input checked="" type="checkbox"/> <b>Low Risk</b>                      <input type="checkbox"/> <b>Specified Risk</b>                      <input type="checkbox"/> <b>Unspecified Risk at RA</b></p>