

SBP

Sustainable Biomass Partnership

Supply Base Report: The Danish Nature Agency

First Surveillance Audit

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Completed in accordance with the Supply Base Report Template Version 1.2

For further information on the SBP Framework and to view the full set of documentation see www.sbp-cert.org

Document history

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1 Overview

Producer name: The Danish Nature Agency (Naturstyrelsen)
 Producer location: Førstballevej 2, 7183 Randbøl, Denmark
 Primary contact: Per Lyng Jensen, Førstballevej 2, 7183 Randbøl
 Company website: www.nst.dk
 Date report finalised: 01/Jul/2017
 Close of last CB audit: 20/Jun/2017
 Name of CB: DNVGL Business Assurance Finland Oy Ab
 Translations from English: Yes
 SBP Standard(s) used: Standard 2 version 1.0, Standard 4 version 1.0, Standard 5 version 1.0
 Weblink to Standard(s) used: <http://www.sustainablebiomasspartnership.org/documents>
 SBP Endorsed Regional Risk Assessment: Not applicable
 Weblink to SBE on Company website: Not applicable

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"/>	X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2 Description of the Supply Base

2.1 General description

Danish forest area

According to Statistics Denmark (2013) the forest cover in Denmark is 615254 ha which is equal to app. 14 % of the total land area and the forest area is increasing. A total of app. 75% of the forest area is under private ownership while 25% is managed by public organizations. There are many small forest owners (less than 20 ha), but the main part (more than 50%) of the forest area is owned by larger forest owner >250 ha.

Forest area Denmark		
		2013
All Denmark	Total forest area	620.500 ha
	Broadleaves	42 %
	Conifers	39 %
	Mixtures of broadleaves and conifers	11 %
	Christmas trees and greenery	5 %
	Unstocked	1 %
	Temporarily unstocked	1 %

Table 1. Forest cover in Denmark (Statistics Denmark 2013)

Ownership	%
Private forest	59
Private companies	10
Foundations	4
State forest	19
Other state owned	1
Other public forest	4
Unknown	2
Total	100

Table 2. Forest ownership (Thomas Nord-Larsen et al.2015)

Forestry farms sizes			
Units: Number			
		2014	%
All Denmark	All forestry farms	24142	100
	Farms with 0,5-19,9 hectare forestry	21570	89,3
	Farms with 20,0-49,9 hectare forestry	1335	5,5
	Farms with 50,0-99,9 hectare forestry	579	2,4
	Farms with 100,0-249,9 hectare forestry	365	1,5
	Farms with 250,0-499,9 hectare forestry	145	0,6
	Farms with 500,0 hectare forestry and over	148	0,6

Table 3. Forest ownership distributed on forest size (Statistics Denmark 2014)

The standing volume is app. 130 mio m³ which is equal to 209 m³/ha. Broadleaves account for 57 % and conifers for 43 % of the standing volume. Standing volume has increased for many years due to an increasing forest area, and properly also an increase in standing volume/ ha. The annual total increment in standing volume is estimated to 7,7 mio m³/ha and the annual harvest is estimated to 4,8 mio m³/ha. Thus the annual net increment is 2,9 mio m³/year.

The total gross factorial income for forest products is app, 1 billion Danish Kroner (app. 133 mio euro). In 2015 the production of energy wood accounted for 300 mio Danish Kroner.

More than 85% of the Danish forest area is protected under the Danish forest legislation. Certain forest habitats are also protected under Nature 2000 legislation.

Supply-base: State forest managed by the Danish Nature Agency

The Danish Nature Agency manages forest and nature areas owned by The Ministry of Food and Environment and only supply wood chips from these areas. The areas are managed in a holistic approach, where respect for nature protection, outdoor recreation, cultural history, production, etc. are all rated highly. However there is a special emphasis on nature protection and support of outdoor opportunities.

The forest management is certified according to PEFC og FSCs standards for responsible forest management. Only a limited area is excluded from the certificates:

Certificate	Areas excluded	Area excluded (ha)
PEFC	Farmland, camping grounds, golf courts , nurseries, special project areas	4.533
FSC	Farmland, camping grounds, golf courts , nurseries, special project areas, christmas tree areas	5.701
SBP	Farmland, camping grounds, golf courts , nurseries, special project areas	4.533

Table 4. List over areas excluded from certificates.

The total FSC certified area is 195366 ha, while the PEFC certified and SBP compliant area is 196565 ha.

The Danish Nature Agency manages the forest according to principles for Nature Based Management. The means that clear felling in general is not used although exceptions can occur.

	Beech	Oak	Ash and mapple	Other boadleaves	Spruce	Noble fir	Mountain pine	Other conifers	Forest areas	Open nature areas	Other areas e.g. roads	Total
ha	21632	16279	2424	5448	30828	6595	6776	17747	109652	80625	11850	202989

Table 5 Land use state forest

2.2 Actions taken to promote certification amongst feedstock supplier

The Danish Nature Agency is sourcing the main part of the biomass from own areas. Only in connection with nature projects where neighbor areas are included there may be woodchip from outside The Danish Nature Agency’s ownership. Woodchip from outside The Danish Nature Agency’s ownership will not be claimed as SBP compliant. Areas managed by The Danish Nature Agency are for the main part certified against PEFC as well as FSC forest management standards. Furthermore The Danish Nature Agency is participating in certification standard setting processes.

2.3 Final harvest sampling programme

The Danish Nature Agency only use clear fellings to a limited extend. A clear felling is a restricted coherent forest areas where all the threes are cut down at the same time. Instead the forest management is based on principles for nature based forest management. Nature Based forest management aims to build stable forests that are rejuvenating naturally, and where forest climate is maintained. Forests will consist of locally adapted and especially native species and the forest will be characterized by high variation in age and species composition. In the management of state forest there is a focus on providing dead wood, natural hydrology, protect and provide key habitats and create recreational values. Furthermore, there is ban on the use of pesticides in the state's forests.

Wood chip production represents around 200,000 tonnes annually. The chips are preferably provided in connection with the initial thinning, and as a byproduct in later fellings.

Thinnings 119.771 ton (2015 numbers)

From the first thinnings where trees are cut down using a feller/- buncher. Wood chip are the only product from these operations. Chipping is carried out in the stand and the chips are transported to the power plant or to a storage. Some of the wood chip also come from nature projects (For example clearing of heath).

Distribution of wood chip associated with thinning:

Nature projects	11.262 ton
Thinnings broadleaves	13.232 ton

Thinnings conifers 95.276 ton

Treetops: 34.688 ton (2015 numbers)

Chipping of treetops when harvesting mid age or older deciduous trees. Treetops are stacked and chipped on roadsides.

Rundtræ: 35.551 ton (2015 numbers)

Is produces as a by-product in later fellings of conifers where timber is the main product. The wood chip is low quality wood which cannot be used for high quality products. The products are harvested using a harvester forwarded to road side, from where it is transported directly to the power plant or to a storage where it is chipped.

2.4 Quantification of the Supply Base

Supply Base

- a. Total Supply Base area (ha): 202.989 ha ¹
- b. Tenure by type (ha): public 202.989 ha
- c. Forest by type (ha): temperate 202.989 ha
- d. Forest by management type (ha): managed natural
- e. Certified forest by scheme (ha): 202.989 ha ha is PEFC certified
201.822 ha is FSC certified²

Feedstock

- f. Total volume of Feedstock: between 200.000 to 400.000 m³
- g. Volume of primary feedstock: between 200.000 to 400.000 m³.
- h. List percentage of primary feedstock (g), by the following categories. Subdivide by SBP-approved Forest Management Schemes:
 - PEFC certified 100 %
 - FSC certified 98 %
- i. List all species in primary feedstock, including scientific name:

Coneferious species			
Abies Alba	Larix spp	Pinus contorta	Pinus spp
Abies Grandis	Picea abies	Pinus nigra	Pseudotsuga menziesii
Abies Normaniana	Picea glauca	Pinus ponderosa	Thuja plicata
Abies Procera	Picea sitchensis	Pinus strobus	Tsuga heterophylla (Raf.) Sarg
Abies spp.	Picea spp	Pinus sylvestris	
Broadleaved species			

¹ Parts of the area is set-aside forest and will not contribute to the Feedstock

² FSC does not recognize and allow greenery areas as certified. This area covers an area of 1199 ha which is the between the FSC and PEFC certified area.

Acer platanoides	Betula pubescens	Populus tremuloides	Quercus Rubra
Acer pseudoplatanus	Carpinus betulus L	Populus Spp	Quercus Spp
Alnus glutinosa	Fagus sylvatica	Prunus avium	Salix Spp
Alnus incana	Fraxinus excelsior	Quercus Petraea	Sorbus Spp
Betula pendula	Populus tremula	Quercus robur	

- j. Volume of primary feedstock from primary forest 0 ha
- k. List percentage of primary feedstock from primary forest (j), by the following categories. Subdivide by SBP-approved Forest Management Schemes: 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
<input type="checkbox"/>	X

The full forest area in the supply base is FSC and/ or PEFC certified.

4 Supply Base Evaluation

N/A

5 Supply Base Evaluation Process

N/A

6 Stakeholder Consultation

N/A

7 Overview of Initial Assessment of Risk

N/A

8 Supplier Verification Programme

N/A

9 Mitigation Measures

N/A

10 Detailed Findings for Indicators

N/A

11 Review of Report

Data and information used in this report is for a large part public available. In order to ensure this report further credibility, it has been sent to peer review.

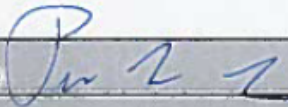

11.1 Peer review

2016: Peer review has been carried out by forestry professor Palle Madsen at Copenhagen University. Comments and recommendations has incorporated in the report.

11.2 Public or additional reviews

2017: There are very few changes i the 2017 report therefore the SBR 2017 edition has not been reviewed.

12 Approval of Report

Approval of Supply Base Report by senior management			
Report Prepared by:	<i>Per Lyng Jensen</i>	<i>Forest Officer</i>	<i>01-12-2017</i>
	Name 	Title	Date
<p>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.</p>			
Report approved by:	<i>Mads Jensen</i>	<i>Head of Division</i>	<i>01-12-2017</i>
	Name 	Title	Date
Report approved by:	<i>[name]</i>	<i>[title]</i>	<i>[date]</i>
	Name	Title	Date
Report approved by:	<i>[name]</i>	<i>[title]</i>	<i>[date]</i>
	Name	Title	Date

13 Updates

13.1 Significant changes in the Supply Base

No changes, NST still supply from own FSC and PEFC certified areas.

13.2 Effectiveness of previous mitigation measures

Very effective as supply base is FSC and/or PEFC certified.

13.3 New risk ratings and mitigation measures

No new risks.

13.4 Actual figures for feedstock over the previous 12 months

Harvest for the previous 12 months 200.00 to 400.000 m³

13.5 Projected figures for feedstock over the next 12 months

The number is expected to be between 200.000 to 400.000 m³