



Supply Base Report: Scandbio Latvia SIA

Re-assessment

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Completed in accordance with the Supply Base Report Template Version 1.3

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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Contents

1	Overview	1
2	Description of the Supply Base	1
2.1	General description.....	1
2.1.1	Supply Base Latvia.....	2
2.1.2	Supply Base Lithuania.....	4
2.1.3	Supply Base Finland.....	6
2.1.4	Supply Base Sweden	9
2.1.5	Supply Base Norway	13
2.2	Actions taken to promote certification amongst feedstock supplier	16
2.3	Final harvest sampling programme	16
2.4	Flow diagram of feedstock inputs showing feedstock type [optional]	17
2.5	Quantification of the Supply Base.....	17
3	Requirement for a Supply Base Evaluation	19
4	Supply Base Evaluation	20
4.1	Scope.....	20
4.2	Justification	20
4.3	Results of Risk Assessment	20
4.4	Results of Supplier Verification Programme	20
4.5	Conclusion	20
5	Supply Base Evaluation Process	21
6	Stakeholder Consultation	22
6.1	Response to stakeholder comments	22
7	Overview of Initial Assessment of Risk	23
8	Supplier Verification Programme	24
8.1	Description of the Supplier Verification Programme	24
8.2	Site visits.....	24
8.3	Conclusions from the Supplier Verification Programme	24
9	Mitigation Measures	25
9.1	Mitigation measures.....	25
9.2	Monitoring and outcomes	25
10	Detailed Findings for Indicators	26
11	Review of Report	27
11.1	Peer review	27
11.2	Public or additional reviews	27

12	Approval of Report	28
13	Updates	29
13.1	Significant changes in the Supply Base.....	29
13.2	Effectiveness of previous mitigation measures.....	29
13.3	New risk ratings and mitigation measures	29
13.4	Actual figures for feedstock over the previous 12 months	29
13.5	Projected figures for feedstock over the next 12 months.....	30

1 Overview

Producer name:	SIA "Scandbio Latvia"
Producer location:	"Griki", Lauciene parish, Talsi district, Latvia, LV-3285
Geographic position:	Lat 57.214754, Long 22.702670
Primary contact:	Ilze Lutjanska, "Griki", Lauciene parish, Talsi district, Latvia, LV-3285; telephone +37125158241; email ilze.lutjanska@scandbio.com
Company website:	www.scandbio.lv
Date report finalised:	17/Jun/2020.
Close of last CB audit:	01/Jul/2020., "Griki", Lauciene parish, Talsi district, LV-3285
Name of CB:	SIA "NEPCon"
Translations from English:	NA
SBP Standard(s) used:	Standard 2 version 1.0, Standard 4 version 1.0, Standard 5 version 1.0, Instruction 5E version 1.1
Weblink to Standard(s) used:	https://sbp-cert.org/documents/standards-documents/standards
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
X	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2 Description of the Supply Base

2.1 General description

Most part of SIA "Scandbio Latvia" raw material is received from Latvian sawmills as by-products (sawmill residues). Small part of the same type of raw material indirectly comes from Lithuania, Sweden, Norway and Finland. In reference period was 15-20 suppliers total.

Proportions of SBP feedstock product groups:

Controlled Feedstock: 39,21 % (in reference period 10-15 suppliers)

SBP-compliant Primary Feedstock: 0%

SBP-compliant Secondary Feedstock: 53.75 % (in reference period 10-15 suppliers)

SBP-compliant Tertiary Feedstock: 5,82 % (in reference period 0-5 suppliers)

SBP non-compliant Feedstock: 1,22 % (in reference period 10-15 suppliers)

Species of raw material:

Aspen - Populus tremula; Grey alder - Alnus incana; Black Alder - Alnus glutinosa; Silver birch – Betula pendula; Downy birch - Betula pubescens; Oak - Quercus robur (L.); Ash - Fraxinus excelsior (L.); Scots pine - Pinus sylvestris; Norway spruce - Picea abies; Willow – Salix alba.

2.1.1 Supply Base Latvia

SIA “Scandbio Latvia” consider all of Latvia as its supply base.

SIA “Scandbio Latvia” sources:

- ✓ Scots pine - Pinus sylvestris
- ✓ Norway spruce - Picea abies;
- ✓ Downy birch - Betula pubescens;
- ✓ Silver birch – Betula pendula;
- ✓ Oak - Quercus robur (L.);
- ✓ Aspen - Populus tremula;
- ✓ Grey alder - Alnus incana;
- ✓ Black Alder - Alnus glutinosa;
- ✓ Ash - Fraxinus excelsior (L.);
- ✓ Willow – Salix alba.

SIA “Scandbio Latvia” have 15-20 suppliers in Latvia.

Forest cover

Latvia has the fourth highest forest cover among all EU countries, surpassed only by Finland (77 %), Sweden (76 %) and Slovenia (63 %). In the European Union, 33 % of the overall territory is forestland, and over the past 20 years, the overall area of forestland has increased by 17 million ha's. Forests in Latvia take up 3,383 mill ha's of land, or 52 % of the country's territory. 53 % of all trees in Latvian forests are deciduous trees, and they dominate the amount of stock volume. The number of stands of young birch trees and white alder has increased rapidly in the past few years. The predominant forest species in Latvia are: Pine 33 %, Birch 30 %, Spruce 19 %, Grey Alder 7 %, Aspen 7 %, Black Alder 3 %, Ash 1%, Oak 0,1% Other Species 1 %.

(Source:https://www.zm.gov.lv/public/files/CMS_Static_Page_Doc/00/00/01/54/24/VMD_Publiskais_parskats_2018_.pdf)

Forest land consists of:

- ✓ forests 3,05 mill.ha (90,6%);
- ✓ marshes 0,17 mill.ha (5,0%);
- ✓ glades (forest meadows) 0,03 mill.ha (0,9%);
- ✓ flooded areas 0,017 mill.ha (0,5%);
- ✓ objects of infrastructure 0,083 mill.ha (2,5%);
- ✓ other forest land 0,017 mill.ha (0,5%).

(Source:<https://www.vmd.gov.lv/valsts-meza-dienests/statiskas-lapas/-meza-apsaimniekosana-?nid=1472#jump>)

Historically, extensive use of forests as a source of profit began later than in many other European countries, therefore a greater biological diversity has been preserved in Latvia.

For the sake of conservation of natural values, a total number of 674 protected areas have been established. Part of the areas has been included in the European network of protected areas Natura 2000. Most of the protected areas are state-owned.

In order to protect highly endangered species and biotopes located without the designated protected areas, if a functional zone does not provide that, micro-reserves are established. According to data of the State Forest Service (2015), the total area of micro reserves is 40 595 ha. Identification and protection planning of biologically valuable forest stands is carried out continuously.

On the other hand, for preservation of biological diversity during forest management activities, general nature protection requirements binding to all forest managers have been developed. They stipulate that at felling selected old and large trees, dead wood, underwood trees and shrubs, land cover around wet micro-lowlands (terrain depressions) are to be preserved, thus providing habitat for many organisms.

Ownership

The Latvian state owns around one-half of the country's forests, while most of the rest of the forest belongs to approximately 135,000 private owners.

Management practices

The forest sector in Latvia is under the supervision of the Ministry of Agriculture. It works with stakeholders to draft forest policies, development strategies for the sector, as well as regulations on forest management, the use of forest resources, environment protection and hunting. (Source: www.zm.gov.lv) The State Forest Service, under the Ministry of Agriculture, is the responsible agency for supervising how the provisions of the laws and regulations are observed in forest management irrespective of the ownership type. (Source: www.vmd.gov.lv.) State owned forests are managed by Stock Company "Latvian State Forests", which was established in 1999. It implements the state's interests in terms of preserving and increasing the value of the forest and enhancing the contributions of the forest to the national economy. There are management restrictions in 28.2 % of the total forest area in Latvia. This includes areas that are strictly protected from forestry, which cover 3.3 %. Also included are areas with some restrictions on forestry, which cover 10.4 % of the total forest area. In the remaining 14.5 %, other types of management are restricted depending on the values in the forest. Due to the dramatic increase in forest cover in the last 100 years, the current proportion of old-growth forests in Latvia is low (75); as such, a major challenge of forest conservation in Latvia is to ensure that such oldgrowth forests and features are protected and allowed to develop. (Source: www.lvm.lv)

Socio-Economic setting

The forest sector is one of the cornerstones of the national economy at this time. Forestry, wood processing and furniture manufacturing represented 5,2 % of GDP in 2015, while exports amounted to EUR 2 billion – 20 % of all exports. Currently, there is no parish in Latvia where one cannot be found a smaller or larger wood processing plant. Often they are the most important employers in the area and, consequently, the local economies and the mainstay of the population.

(Source: https://www.zm.gov.lv/public/ck/files/skaitlifakti_LV_2018web.pdf)

According to the Latvian Ministry of Agriculture, Latvia is a net exporter of forestry industry products. In 2015 Latvia exported EUR 2.04 billion (U.S. \$ 2.23 billion) worth of forest industry products, which was 3.1 % more than in 2014 when exports amounted to EUR 1.98 billion (U.S. \$ 2.41 billion). In 2015 Latvia exported EUR 1.74 billion (U.S. \$ 1.90 billion) worth of timber and timber products, 2 percent up from EUR 1.70 billion (U.S. \$ 2.07 billion) exported in 2014.

The EU is the main trading partner for the Latvian wood sector with an almost 90 percent share of the total Latvian wood export volume. Traditionally, Latvia's largest forestry export markets are the UK, Germany and Sweden. In 2015, Latvia supplied its forestry products mainly to the UK (18.9 % of total exports), Germany (10.5 %) and Sweden (9.5 %).

Areas where recreation is one of the main forest management objectives add up to 8 % of the total forest area. Observation towers, educational trails, natural objects of culture history value, picnic venues: they are just a few of recreational infrastructure objects available to everyone free of charge. Special attention is devoted to creation of such areas in state-owned forests. Recreational forest areas include national parks (excluding strictly protected areas), nature parks, protected landscape areas, protected dendrological objects, protected geological and geomorphologic objects, nature parks of local significance, the Baltic Sea dune protection zone, protective zones around cities and towns, forests within administrative territory of cities and towns. Management and governance of specially protected natural areas in Latvia is co-ordinated by the Nature Conservation Agency under the Ministry for Environmental Protection and Regional Development

Certification

In Latvia are operating both FSC and PEFC certification systems.

1 122 293 ha are FSC certified (Q2 June 2020).

(Source:<https://fscint.maps.arcgis.com/apps/webappviewer/index.html?id=06188ad39e5344db96a4a181e135c393&mobileBreakPoint=300>)

1 747 003 ha are PEFC certified (PEFC Global Statistics, March 2020).

(Source:<https://cdn.pefc.org/pefc.org/media/2020-05/1a524ab5-1ba2-4185-8f8a-9cb16e29150e/22b08b97-31c05a60-8ac2-a3d2fb0e9868.pdf>)

Conservation CITES or IUCN species

Latvia has ratified the CITES Convention (the Convention on International Trade in Endangered Species of Wild Fauna and Flora) in 1997. There are no species from CITES lists fauna in Latvia.

Status of IUCN defined in table.

Species	CITES status*	IUCN classification**
Scots pine - <i>Pinus sylvestris</i>	Not on the list	Least Concern
Norway spruce - <i>Picea abies</i>	Not on the list	Least Concern
Aspen - <i>Populus tremula</i>	Not on the list	Least Concern
Grey alder - <i>Alnus incana</i>	Not on the list	Least Concern
Black alder - <i>Alnus glutinosa</i>	Not on the list	Least Concern
Silver birch - <i>Betula pendula</i>	Not on the list	Least Concern
Downy birch - <i>Betula pubescens</i>	Not on the list	Least Concern
Oak - <i>Quercus robur</i> (L.)	Not on the list	Least Concern
Ash - <i>Fraxinus Excelsior</i> (L.)	Not on the list	Near Threatened
Willow - <i>Salix alba</i>	Not on the list	Least Concern

*<http://checklist.cites.org/>

**<https://www.iucnredlist.org/search?l>

2.1.2 Supply Base Lithuania

SIA "Scandbio Latvia" consider all of Lithuania as its supply base.

SIA "Scandbio Latvia" sources:

- ✓ Scots pine - *Pinus sylvestris*
- ✓ Norway spruce - *Picea abies*.

SIA "Scandbio Latvia" have 0-5 suppliers who indirectly sources from Lithuania.

Forest Cover

Lithuania is situated within the so-called mixed forest belt with a high percentage of broadleaves and mixed conifer-broadleaved stands. Most of the forests - especially spruce and birch - often grow in mixed stands. According to 2017 forest statistics, the total forest land occupies 33,5 % of the country's territory or 2,189 mill ha. The south-eastern part of the country is most heavily forested. Average annual increase in forest area is about 7.000 ha. The huge differences in forest coverage during the last 10 years is explained by insufficient data previously used by Forest Assessment. Occupying 1,145 mill ha, coniferous stands prevail in Lithuania, covering 55.6% of the forest area. They are followed by softwood deciduous forests (0.841 mill ha, 40.9 %). Hardwood deciduous forests occupy 72,000. ha (3.5 %). Over the last 14 years total area of softwood deciduous forests increased by 142,700 ha. The area of hardwood deciduous has decreased by 20,400 ha over the last 14 years, and coniferous forest area in last 14 years decreased by 14,900 ha.

Distribution of most common species: Scots pine (*Pinus sylvestris*) – 33 %; Norway spruce (*Picea abies*) - 20 %; Birch (*Betula pendula*) – 21 %; Black alder (*Alnus glutinosa*) – 7 %; Grey alder (*Alnus incana*) – 6 %; Aspen (*Populus tremula*) – 4 %; Oak (*Quercus robur*) - 2 %; Ash (*Fraxinus excelsior*) – 1 %; Other - 7 %

Ownership

State forest 1.089 mill ha, private forest area 1.101 mill ha.

Socio-Economic setting

The wood processing sector accounts for about 2.0 % of GDP, employing around 32,200 workers or 3.5 % of total employment. 2,257 companies were active in the sector at the beginning of 2016, 99.8 % of them were SME (small and medium sized enterprises). In 2015 production of the wood processing sector (at current prices excl. taxes) amounted to 973 mill EUR, which was a 10.4 % increase compared to 2014. Around 2/3 of production is exported to more than 90 countries around the world.

The most important export markets for the wood processing sector in 2015 were Germany, followed by Norway, Latvia and the United Kingdom. European Union countries accounted for almost 70 % of exports by the wood processing sector.

Key products is Sawn timber; Prefabricated buildings; Practical boards and board of wood; Wooden windows and doors; Flooring panels and Exterior and interior planks.

Management

All Lithuanian forests are distributed into four functional groups. In the beginning of 2017, distribution of forests by functional groups was as follows: group I (strict nature reserves) - (1.1%); group II (ecosystems protection and recreational forests) (11.9%); group III (protective forests) (14.6%); and group IV (exploitable forests) (72.3%).

Fellings

Over 1990-1995 felling rates in all Lithuanian forests (irrespective of their ownership) were unstable, but still slightly increasing and reached the peak in 1995 with the total of 9.43 mill. m³ of living trees felled. After 1995 felling were decreasing to 7.71 mill. m³ of living trees felled in 1997 and then started to increase again. The highest point over the whole accounting period was reached in 2003 (10.34 mill. m³ of living trees felled) and then started slightly to decrease until 2012 (8.05 mill. m³ of living trees felled). Over the past years, marginal increase in forest felling is observed (9.86 mill. m³ in 2016). State forest of Lithuania are FSC certified. The audit of this certification confirms the fact that Lithuanian State forests are managed responsibly, in compliance with the requirements of protection and conservation of biodiversity. (Source: <http://www.fao.org/docrep/w3722e/w3722e22.htm>)

Certification

In Lithuania is operating FSC certification system.

1 214 403 ha are FSC certified (Q2 June 2020).

(Source: <https://fscint.maps.arcgis.com/apps/webappviewer/index.html?id=06188ad39e5344db96a4a181e135c393&mobileBreakPoint=300>)

Conservation CITES or IUCN species

There are no species from CITES lists fauna in Lithuania that SIA “Scandbio Latvia” receives from Lithuania. Status of IUCN defined in table.

Species	CITES status*	IUCN classification**
Scots pine - <i>Pinus sylvestris</i>	Not on the list	Least Concern
Norwau spruce - <i>Picea abies</i>	Not on the list	Least Concern

*<http://checklist.cites.org/>

**<https://www.iucnredlist.org/search?l>

2.1.3 Supply Base Finland

SIA “Scandbio Latvia” consider all of Finland as its supply base.

SIA “Scandbio Latvia” sources:

- ✓ Scots pine - *Pinus sylvestris*
- ✓ Norway spruce - *Picea abies*.

SIA “Scandbio Latvia” have 0-5 suppliers who indirectly sources from Finland.

Forest cover

Forests cover about 75 % of Finland’s land area corresponding to about 22,2 mill ha. For every Finn, there is around 4,2 ha’s of forest.

In Finland, land area is classified according to its use. Forestry land is further divided into different types according to the productivity of the land: productive forest land, where the annual wood growth is over one cubic meter per ha, poorly productive forest land, where growth is between 0.1 and 1 cubic metres, and unproductive forest land, where the annual growth is below 0.1 cubic metres.

In terms of phytogeography, the vast majority of Finland is situated in the boreal coniferous zone. In the boreal coniferous zone, the soil is poor and acid and there are only few forest trees species. Almost half of the volume of the timber stock consists of pine (*Pinus sylvestris*). The other most common species are spruce (*Picea abies*) downy birch (*Betula pubescens*) and silver birch (*Betula pendula*). These species make for 97 % of total timber volume in Finland. The majority of Finnish forests are mixed, which means that they are made of more than one species. In all, Finland has about thirty indigenous tree species.

Ownership

Private individuals and families own around 60 % of forests in Finland. There are some 632,000 individual family forest owners in Finland, if all those who own forest holdings jointly and forest holdings larger than two ha’s are included. This means that nearly 14 % of Finns are forest owners. The forests owned by families and individuals pass from one generation to the next through inheritance; therefore, Finns generally use the term ‘family forestry’. The state owns about 26 % of the Finnish forests, private industries, such as forest industry companies 9 % and other bodies 5 % of the productive forest land. The state forests are mainly situated in the north of Finland, and 45 % of them are under strict protection. State lands are managed by Metsähallitus. A couple of decades ago, the typical Finnish family forest owner was a male farmer living in the country and with little formal education. Today it is no longer possible to define a typical forest owner. The factor with the greatest impact on the structure of the forest owner group is the ageing of the population, which means that the largest group among forest owners consists of pensioners. The rapid urbanization of forest ownership is a subject of intensive speculation in Finland. Although the phenomenon is real, some 55 % of forest owners still live in sparsely populated areas and only one fourth of them live in cities with more than 20,000 inhabitants. Roughly 40 % of the forest owners still live on their holdings.

About one quarter of the persons responsible for taking care of the forest holdings is a woman. The share of women among forest owners increases slowly. The development can be totally explained by the fact that women live longer than men. Typically, Finnish forest holdings are small. The number of holdings above two ha's is about 347,000. The average size of these holdings is 30.1 ha's. Only 5 % of forest holdings have more than one hundred ha's of forest. The share of the largest, as well as the smallest forest holdings is increasing. A forest holding often has several owners, which is why the number of forest owners is twice that of forest holdings. 12 % of forest holdings are owned by the heirs to undistributed estates. Other types of collectives own 14 %. About half of the forest holdings have been acquired through inheritance. A private forest holding changes owners every 23 years, on an average. The share of privately-owned productive forestry land is larger than other owners', since the forests owned by the state and partly also by the industry are mainly situated on lands of low productivity in east and north Finland. Therefore, the share of felling on private lands is clearly higher than their share of forest area, 80 %.

Socio-Economic setting

The forest sector is one of the important cornerstones of Finnish economy. Natural Resources Institute Finland estimates that in 2017 it employed directly almost 64,000 people. Of the revenue from Finland's commodities exports in 2017, 20 percent consisted of forest industry products.

Natural Resources Institute Finland further estimates that the value added of the forest sector was 4.4 percent of the total value added of the national economy in 2017. Of the value added of the forest sector, 45 percent was derived from forestry, 16 percent from wood products industry and 39 percent from pulp and paper industry.

In terms of regional economy, the significance of the forest sector is the greatest in South-east Finland, South Savo and Central Finland.

(Source: <https://forest.fi/article/forest-sector-in-finland/>)

Management practices

Finnish Forest Act regulates felling of timber. Regional Forestry centres control the implementation of the forestry legislation at the regional level. Forestry centres accept forest use declarations. All forest owners (non industrial private owners, company and state forests) do have to send in a forest use declaration to the regional forest centre before felling can take place. In the forest use declaration forest owners shall inform about the stand characteristics, intended measures, regeneration in case of final felling and ecological concerns on the site. Regional environment centres control the implementation of Nature Conservation Act. Regional environment centres must inform the forest centres about areas where logging is prohibited. Forest development centre Tapio collects the delicts of forest legislation from regional forestry centres (the number and type of delicts) and forwards them for the Ministry of agriculture and forestry.

(Source: http://www.unece.org/fileadmin/DAM/timber/docs/sem/2004-1/full_reports/Finland.pdf)

Natural values of Finnish forests have been conserved by the exclusion of large areas of forest from commercial use. In fact, compared with the total forest area, Finland is at the top of European countries as to the area of such conservation areas. During the 1990s the conservation principles were revised and augmented, and currently more and more attention is paid to the ecological management of commercial forests. The rationale is that the more considerably the commercial forests are treated, the smaller the area which will later have to be placed under strict protection.

Voluntary protection with the Metso Programme - The natural values of commercial forests in Finland are protected in several ways. As an example, the Forest Act defines a range of habitats of special importance. These are often small in size, the deterioration of their characteristics through forestry measures is prohibited by the Act. In practice this means that they must be excluded from forestry measures. The vicinity of springs and other small-scale waterways in forests, for example, are spared from felling. The recommendations for

good forest management, drawn up by Tapio, direct an even stricter protection of natural values than that required by law. In 2014, continuation of the Forest Biodiversity Action Programme Metso until 2025 was adopted. Its aim is to improve the biodiversity in southwestern Lapland, in north-eastern Kainuu region and in the areas south of them. The programme is based on voluntary conservation methods. Almost all Finnish forests are certified.

SHARE OF	1980	1990	2010	2015
EMPLOYMENT	%	%	%	%
Forest industry	5.2	3.7	1.9	1.6
Forestry	2.7	1.6	0.9	1.0
GNP				
Forest industry	6.8	4.5	2.6	2.4
Forestry	4.6	2.9	1.7	1.8
VALUE OF EXPORTS				
Forest industry	42.4	37.6	20.3	21.5
Forestry (roundwood exports)	1.0	0.2	0.2	0.2
INDUSTRIAL PRODUCTION				
Forest industry	23.4	19.0	18.2	18.9

- In 2015, the Finnish forest sector employed a total of 65,000 persons, or about 2.7% of the total employment.
- Sources: Statistics Finland; Natural Resources Institute Finland. Updated 21.04.2017.

A group considered as an indigenous people in Finland is the Sámi. Their rights have been secured in many laws e.g. the Constitution, the Sámi Parliament Act, the Act on the Finnish Forest and Park Service and the Act on Reindeer Husbandry. The Sámi Parliament is the supreme political body of the Sámi in Finland. The Sámi Parliament represents the Sámi in national and international connections, and it attends to the issues concerning Sámi language, culture, and their position as an indigenous people. The Sámi Parliament can make initiatives, proposals and statements to the authorities. The Sámi Parliament Act also states that the authorities have an obligation to negotiate with the Sámi Parliament for all important measures that concern the Sámi people. These include for example the use of state land and conservation areas.

Certification

In Finland are operating both FSC and PEFC certification systems.

1 917 429 ha are FSC certified (Q2 June 2020).

(Source: <https://fscint.maps.arcgis.com/apps/webappviewer/index.html?id=06188ad39e5344db96a4a181e135c393&mobileBreakPoint=300>)

18 271 894 ha are PEFC certified (PEFC Global Statistics, March 2020).

(Source: <https://cdn.pefc.org/pefc.org/media/2020-05/1a524ab5-1ba2-4185-8f8a-9cb16e29150e/22b08b97-31c05a60-8ac2-a3d2fb0e9868.pdf>)

Conservation CITES or IUCN species

Finland joined CITES in 1976. Nowadays the national legislation for the implementation of CITES and relating EU regulations is the Nature Conservation Act (1096/1996), which came into force in the 1st of January 1997. IUCN National Committee of Finland was approved by IUCN Council in 1999.

There are no species from CITES lists fauna in Finland that SIA “Scandbio Latvia” receives from Finland. Status of IUCN defined in table.

Species	CITES status*	IUCN classification**
Scots pine - <i>Pinus sylvestris</i>	Not on the list	Least Concern

Norway spruce - <i>Picea abies</i>	Not on the list	Least Concern
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*<http://checklist.cites.org/>

**<https://www.iucnredlist.org/search?l>

2.1.4 Supply Base Sweden

SIA “Scandbio Latvia” consider all of Sweden as its supply base.

SIA “Scandbio Latvia” sources:

- ✓ Scots pine - *Pinus sylvestris*
- ✓ Norway spruce - *Picea abies*.

SIA “Scandbio Latvia” have 0-5 suppliers who indirectly sources from Sweden.

Forest cover

Most of Sweden is covered by boreal forest which in its natural state contains a patchwork of habitats shaped by various disturbance regimes, notably fires, storms and flooding. Owing to the large North-South extent of the country, there is a considerable variation in climate and soil conditions, and both conditions favour tree growth in the South. Sweden’s forests are among the most northerly in the world. The warming effect of the Gulf Stream permit forest growth at the latitudes that are characterized by treeless tundra in other parts of the world. Most of the country is covered by coniferous forests, but there is a small zone of mainly deciduous forests in the south.

According to the latest forest inventory “Riksskogstaxeringen” from 2018 the total area of Sweden is 40.7 mill ha’s (100%). Of these 28.1 mill ha’s (69 %) are forest area and 23.5 mill ha’s (58 %) of these are defined as productive forests.

Scots pine (*Pinus sylvestris*) and Norway spruce (*Picea abies*) are the dominant tree species in all Sweden. Lodgepole pine (*Pinus contorta*) and the deciduous species Birch (*Betula pendula*), Aspen (*Populus tremula*) and Alder (*Alnus glutinosa*) are used to some extent in northern Sweden. European larch (*Larix decidua*), Douglas fir (*Pseudotsuga menziesii*) and Sitka spruce (*Picea sitchensis*) and oak (*Quercus robur*) and Beech (*Fagus sylvatica*) is used in the south. The main part of the deciduous forest cover is naturally regenerated.

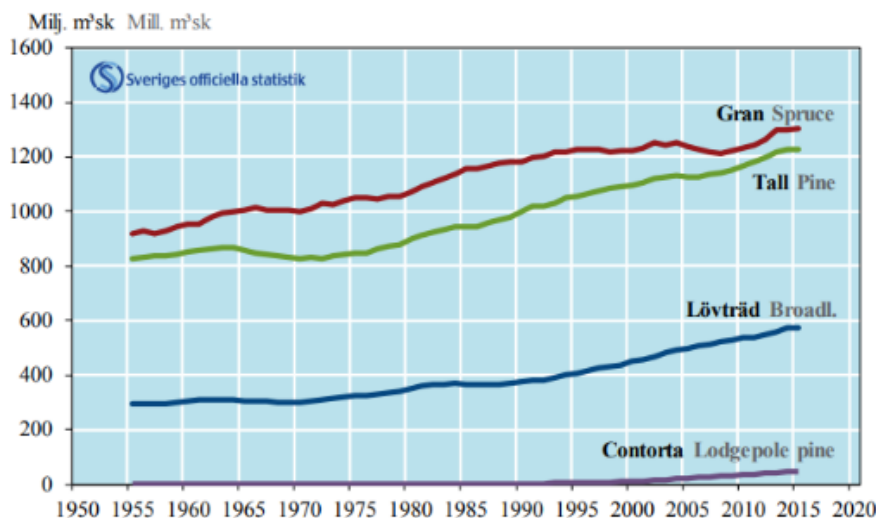


Figure 1. Standing volume by species. 1956-2015. Productive forest land. Excluding national parks, nature reserves and nature protection areas that are protected from forestry as of 2017.

(Source: https://www.slu.se/globalassets/ew/org/centrb/rt/dokument/skogsdata/skogsdata_2018_webb.pdf)

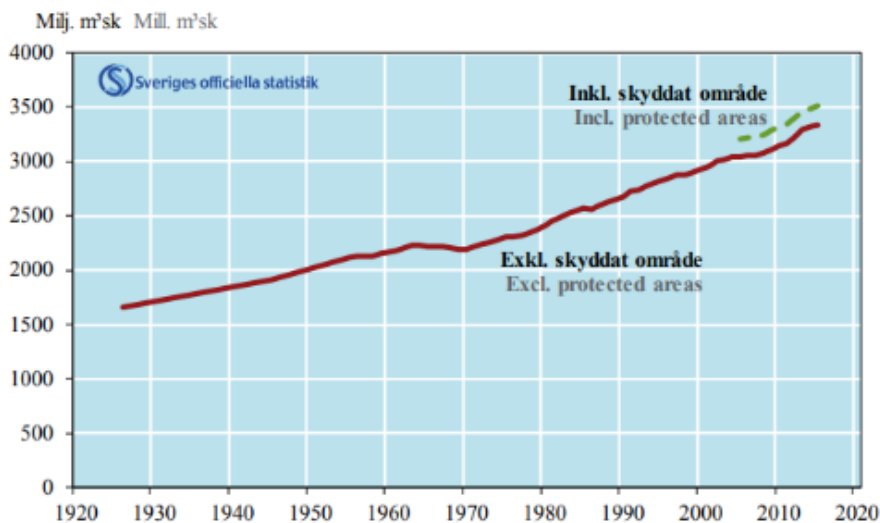


Figure 2. Total standing volume. 1926-2015. All land use classes excluding high mountains and urban land. (Source: https://www.slu.se/globalassets/ew/org/centrb/rt/dokument/skogsdata/skogsdata_2018_webb.pdf)

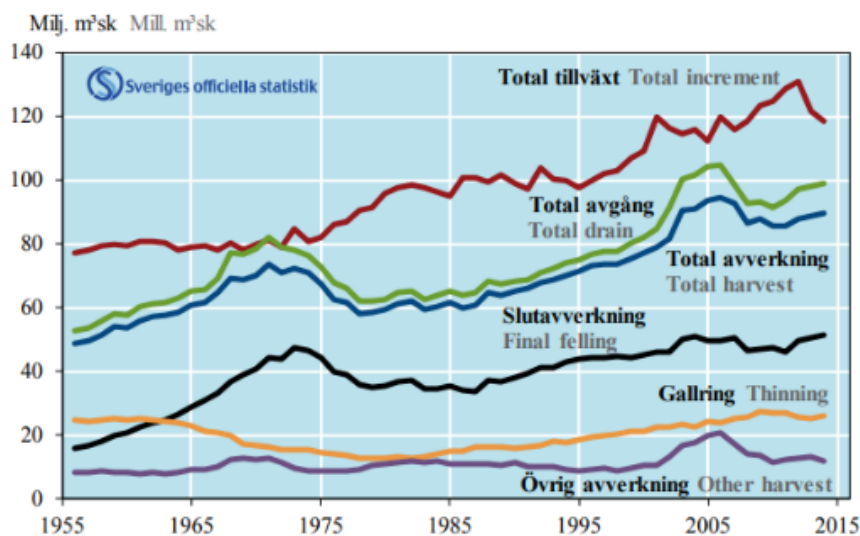


Figure 3. Annual average volume increase, total harvest and distribution by types of fellings. 1956-2014

Ownership

In Sweden there are at least 3 layers of tenure regimes influencing forest use and forestry: Private land tenure, rights to use the land held by the Sami people in the northern parts of Sweden and the right of public access. While the private ownership of forest is based on possession rights, the two other forms relate to user rights.

Private ownership has been important, first and foremost as a basis for sustainable land use and long-term planning and investments in the regeneration of forests. About half of all forest land in Sweden is owned by private enterprises. There are some 200,000 families with forests area bigger than 5 ha's and most farms are passed on from one generation to the next. The average holding is 50 ha's. Some 90,000 family forest entities are members of a forest cooperative. All the cooperatives together form a National Federation of Family Forest Owners, who seeks to influence national and international forest policies.

A small number of large private sector industrial forest enterprises own approx. 25 % of all forest land in Sweden. Only a few Swedish companies have forest holdings combined with industrial capacity. Industrial enterprises tend to buy wood on stumpage basis from private forest owners.

There are 23 pulp and paper enterprises with 50 production facilities in total and 60 sawmill enterprises with around 115 mills in Sweden. Sawmills, which for the most part are owned by private sector enterprises and do not normally have forest on their own.

Most of the State forest belongs to the state-owned company Sveaskog, which accounts for 14 % of all forest land. Sveaskog is Sweden's largest single forest owner and supply logs, pulp wood and biofuel for 130 large industrial customers.

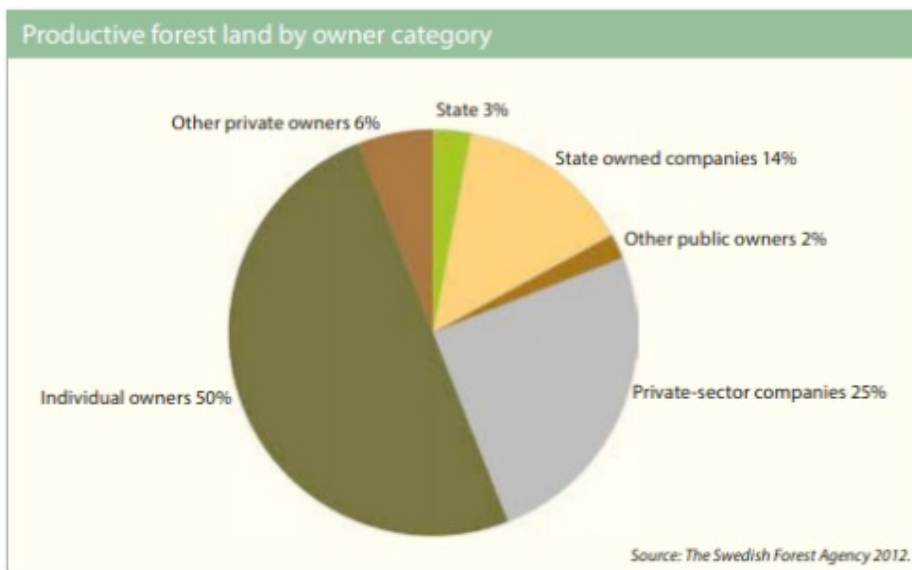


Figure 4. Productive forest land by owner category

(Source: https://www.skogsstyrelsen.se/globalassets/in-english/forests-and-forestry-in-sweden_2015.pdf)

Management Practices

National Forest Policy. The main intention of the Swedish National Forest Policy is to ensure sustainable forest management and it focuses on three major objectives, one for production, one for environmental concerns and one for social concerns.

To obtain a long-term sustainable flow of timber from the forests, an even age-class distribution on the regional level is a long-term target in forest policy.

The legal demands on forestry are mainly set by the Forestry Act and the Environmental Code.

The forest sector is considered a commercial sector which should be economically self-sustained and not subsidized. There are, however some state subsidies to enhance the forest sector's environmental value.

The National Forest Policy is influenced by several international regulations and agreements:

- EU Timber Regulation
- The Habitat Directive
- The Water Framework Directive
- Convention on Biological Diversity (CBD)
- UN Framework Convention on Climate Change (UNFCCC)
- United Nations Forum on Forests (UNFF)

High and long-term sustainable production of forest raw material combined with social and environmental considerations are the primary goal for most forest owners.

Swedish forest management is highly influenced by market-driven processes of forest-certification following the schemes of FSC and PEFC.

Forest management planning is extensively used by forest managers in everyday forestry as a tool for production planning and for implementing conservation measures.

The most used regeneration method is planting. Almost 400 mill seedlings are planted each year and soil preparation is often a prerequisite for successful regeneration. The planting operation is mostly carried out manually, but research on mechanized tree planting is ongoing. The seedlings have traditionally been treated with pesticides to protect against pests, but nowadays more environment friendly mechanical protection is used to greater extent.

More than half of the annual industrial supply originates from private forest entities. More than 70 % of the yearly wood volume procured in Sweden originates from final felling, with the rest coming from thinning operations.

Harvest operations are usually planned with consideration to natural and cultural features. The harvesting is almost totally mechanized and is carried out with single grip harvesters that measures both length and diameter and thus optimizing the wood revenue

More than 90 % of the forest operations, -planting, cleaning, logging and transportation, are carried out by contractors.

Socio-Economic setting

Sweden is a country dominated by forests and has a rather low population density with only 22 inhabitants per square kilometre. The country cover 450 thousand km² and is 1574 km north to south. Sweden is the third largest country in EU by area and has a population of 10.2 mill inhabitants. The country holds almost 1 % of the world's commercial forests, but provides 10 % of the sawn timber, pulp and paper that is traded on the global market.

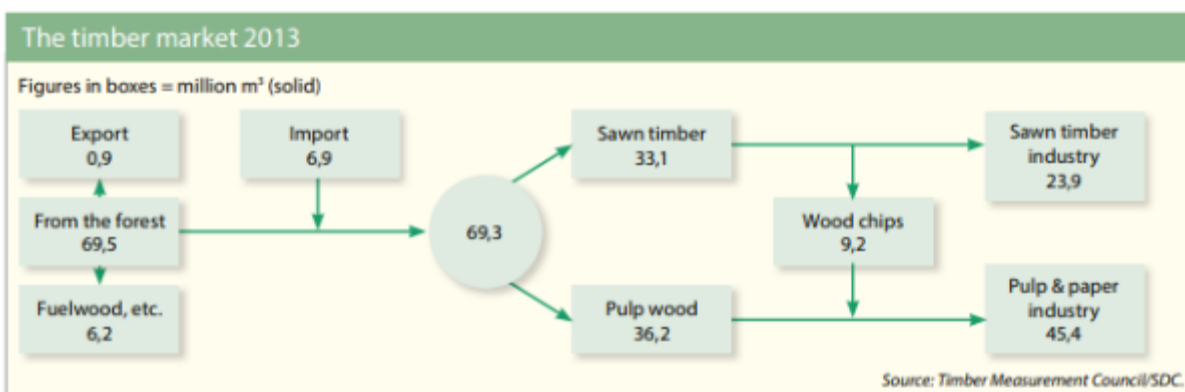


Figure 5. Timber supply chain

The Swedish forest products industry provides direct employment for almost 60,000 people. Together with subcontractors and the forest operations, including transportation the sector source about 200,000 jobs. In several counties, the forest products industry accounts for 20 % or more of industrial employment.

Certification

In Sweden are operating both FSC and PEFC certification systems.

12 987 616 ha are FSC certified (Q2 June 2020).

(Source:<https://fscint.maps.arcgis.com/apps/webappviewer/index.html?id=06188ad39e5344db96a4a181e135c393&mobileBreakPoint=300>)

15 847 125 ha are PEFC certified (PEFC Global Statistics, March 2020).

(Source:<https://cdn.pefc.org/pefc.org/media/2020-05/1a524ab5-1ba2-4185-8f8a-9cb16e29150e/22b08b97-31c05a60-8ac2-a3d2fb0e9868.pdf>)

Conservation CITES or IUCN species

There are no species from CITES lists fauna in Sweden that SIA “Scandbio Latvia” receives from Sweden. Status of IUCN defined in table.

Species	CITES status*	IUCN classification**
Scots pine - <i>Pinus sylvestris</i>	Not on the list	Least Concern
Norway spruce - <i>Picea abies</i>	Not on the list	Least Concern

*<http://checklist.cites.org/>

**<https://www.iucnredlist.org/search?l>

2.1.5 Supply Base Norway

SIA “Scandbio Latvia” consider all of Norway as its supply base.

SIA “Scandbio Latvia” sources:

- ✓ Scots pine - *Pinus sylvestris*
- ✓ Norway spruce - *Picea abies*.

SIA “Scandbio Latvia” have 0-5 suppliers who indirectly sources from Norway.

Forest cover

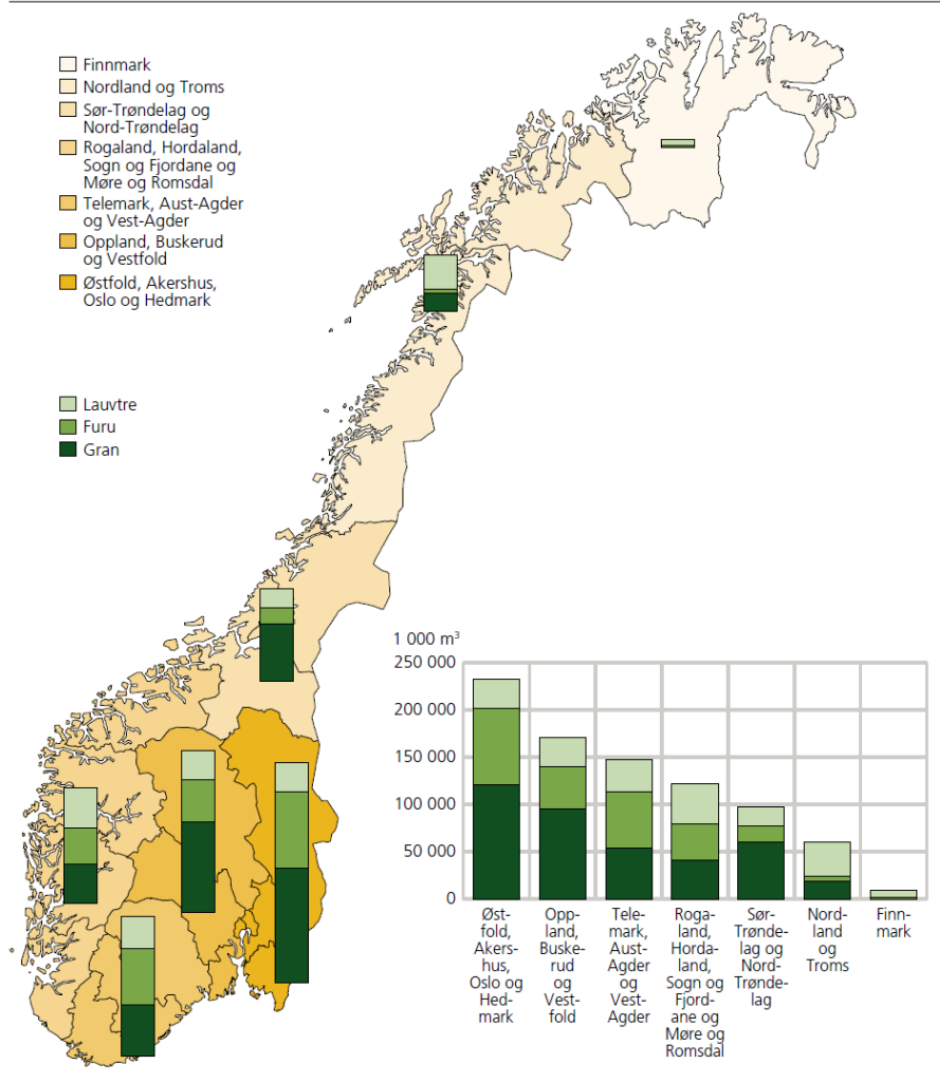
Forests cover about 38 percent of Norway's land area, or about 122.000 square kilometers. Of this, around 86.600 square kilometers are productive forests - that is, they produce enough timber to be important for forestry. In total, Norway today has almost 11 billion trees of 5 cm or more in diameter.

On average, Norwegian forests increase by about 25 million cubic meters of timber per year. Spruce accounts for half of this growth.

It is not only industrial timber that increases. National parks and forest reserves, too, make up an increasing proportion of the forest area in Norway. (Source: <https://www.regjeringen.no/en/topics/food-fisheries-and-agriculture/skogbruk/innsikt/skogbruk/id2009516/>)

Forestry is an industry practically all over the country. The most important species are Norway spruce (44 %), Scots pine (31 %) and birch and other broadleaves (25 %) (Ebook: Rognstad et. al, 2015).

Figur 3.1.4. Stående kubikkmasse under bark fordelt etter treslag og takserte regionar. 2011-2015. 1 000 m³



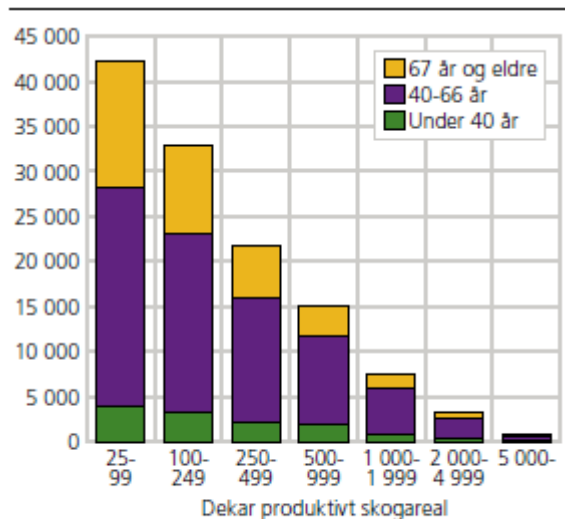
Kjelde: Norsk institutt for bioøkonomi, Landsskogtakseringa.

Figure 6. Forest cover by species in Norway.

Ownership

The forested area is divided between 127 000 properties, many of them are private estates (79% of the area) in combination with agriculture land. In addition, there is a long tradition of using the forests for domestic animal grazing and game hunting.

From figure 7 it can be seen that there are many owners of smaller forests 25-249 Dekar (10 dekar = 1 ha).



Kjelde: Strukturstatistikk for skogbruket, Statistisk sentralbyrå.

Figure 7: Ownership by size of forests in Norway (Ebook Rognstad et al (2015))

From ancient times much of the forests in Norway has been jointly owned by groups of farmers. Many communally owned forests are run nowadays for commercial purposes but members are entitled to a discount on timber. The majority of the joint ownerships were divided up between individual owners from the 18th century onwards. Norwegian Allodial Law (Odelsloven) the right of the first child or another relative to inherit the family's land and forest undivided helps to maintain the steady number of landholdings. However, in more than a half of private forest estates harvesting has not been carried out for over 20 years; statistically the only 6 percent of owners' income acquires from forestry.

Forest owners are obliged to ensure that all activities taking place in forests are in compliance with regulations and statutes. They must also take into account environmental values and pay proper attention to these when carrying out any activities within the forest. However, when felling trees land owners are required to promote the regrowth of new forest – either by planting, or by leaving seed trees to provide natural regeneration.

(Source: <http://archnetwork.org/forestry-in-norway-2/>)

Management

Forestry is administrated by The Royal Ministry of Agriculture. The Ministry may decide that forest – or certain types of forest – shall be considered as protection forest.

The state forest service Statskog manages National Forest Estate. Production and marketing of timber in the state forests are regulated, managed and controlled with the same rules as in private estates. Along wildlife protection and timber production Statskog also manages recreation and hunting on the state forests.

Planting of commercial forest begins in 1935 and reached maximum of approximately 37 K ha in 1964.

Presently, planting is maintained on the level of about 15 K ha per year.

Hedmark is Norway's largest forest county. About 40 percent of round wood is supplied on market from this area. (Source: <http://archnetwork.org/forestry-in-norway-2/>)

Socio-Economic setting.

Forestry is a traditional and important industry in Norway. About 50 percent of the harvested timber is used by sawmills in Norway. There are 225 sawmills operating on an industrial scale. It provides jobs and export earnings. Around 25.000 people are employed in the forest-based sector. Norway is one of the world's leader in the development of wooden structures – bridges and buildings.

Wood and forest products cover about 11 percent of the Norwegian mainland product export. Despite the crisis in the industry 2005 – 2014, paper products have the highest export values of all the forest-based products This is slightly less than the export from the Norwegian fishing industry, somewhat higher than both the

aluminium and the natural gas export values, but twice the value of Norwegian high-technology exports. The pulp and paper industry is the largest producer of bio-energy in Norway.

(Source: <http://archnetwork.org/forestry-in-norway-2/>)

Certification

In Norway are operating both FSC and PEFC certification systems.

643 465 ha are FSC certified (Q2 June 2020).

(Source: <https://fscint.maps.arcgis.com/apps/webappviewer/index.html?id=06188ad39e5344db96a4a181e135c393&mobileBreakPoint=300>)

7 380 750 ha are PEFC certified (PEFC Global Statistics, March 2020).

(Source: <https://cdn.pefc.org/pefc.org/media/2020-05/1a524ab5-1ba2-4185-8f8a-9cb16e29150e/22b08b97-31c05a60-8ac2-a3d2fb0e9868.pdf>)

Conservation CITES or IUCN species

There are no species from CITES lists fauna in Norway that SIA “Scandbio Latvia” receives from Norway.

Status of IUCN defined in table.

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Scots pine - <i>Pinus sylvestris</i>	Not on the list	Least Concern
Norwau spruce - <i>Picea abies</i>	Not on the list	Least Concern

*<http://checklist.cites.org/>

**<https://www.iucnredlist.org/search?l>

2.2 Actions taken to promote certification amongst feedstock supplier

The company concludes long-term procurement contracts with enterprises that have attested their participation in wood chain of custody certification. The objective of the chain of custody system is to provide information on the origin of forest raw materials down from the point of delivery. During SBP certification, the company has increased the procurement of FSC-certified and PEFC-certified raw materials. Thus, all involved companies from the forest management and logging enterprises to woodworking sphere are interested that sustainable forestry methods are attested.

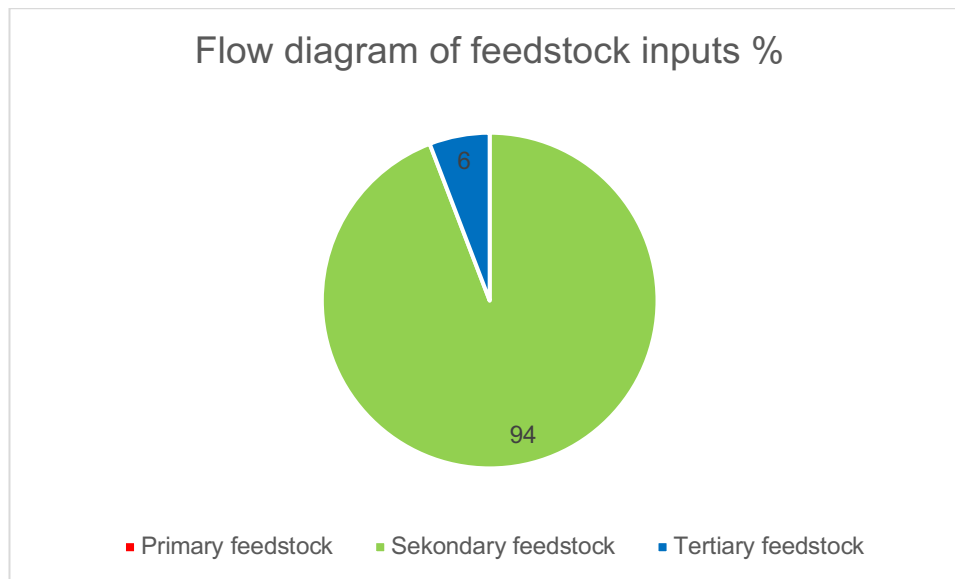
Scandbio Latvia requests its suppliers to provide information about wood origin and legal procurement documents. As a priority, receiving raw material from suppliers, companies that purchase roundwood or sawn timber for processing from Lithuania, Norway, Finland and Sweden, requires wood residues to be FSC-certified or PEFC-certified.

Woodworking residues are procured from woodworking enterprises that mainly produce sawn materials and other products. Motivation for getting certified for those enterprises is the fact that support to sustainable forest management by certified chain of custody increases sales opportunities for both main and side products

2.3 Final harvest sampling programme

Not applicable as all feedstock is secondary or tertiary.

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



Coniferous species – 70-80%

Deciduous species – 20-30%

2.5 Quantification of the Supply Base

Supply Base

- Total Supply Base area (ha): 68,1 (mill.ha) cumulative area of all forest types within SB
- Tenure by type (ha): 46,5 (mill.ha) privately owned/ 17,0 (mill.ha) public/ 4,6 (mill.ha) community concession
- Forest by type (ha): 62,5 (mill.ha) boreal/ 5,6 (mill.ha) temperate/ 0 (ha) tropical
- Forest by management type (ha): 11,5 (mill.ha) plantation/ 49,3 (mill.ha) managed natural/ 7,3 (mill.ha) natural
- Certified forest by scheme (ha): 17,7 (mill.ha) of FSC-certified and 43,1 (mill.ha) PEFC-certified forest

Feedstock

- Total volume of Feedstock: 600 000 – 800 000* m³
- Volume of primary feedstock: 0 m³
- List percentage of primary feedstock (g), by the following categories. - percentages may be shown in a banding between XX% to YY% if a compelling justification is provided*. Subdivide by SBP-approved Forest Management Schemes: *not applicable*
 - Certified to an SBP-approved Forest Management Scheme
 - Not certified to an SBP-approved Forest Management Scheme
- List all species in primary feedstock, including scientific name *not applicable*
- Volume of primary feedstock from primary forest *not applicable*
- List percentage of primary feedstock from primary forest (j), by the following categories. Subdivide by SBP-approved Forest Management Schemes: *not applicable*
 - Primary feedstock from primary forest certified to an SBP-approved Forest Management Scheme
 - Primary feedstock from primary forest not certified to an SBP-approved Forest Management Scheme

- l. Volume of secondary feedstock: Latvia and Lithuania, sawdust and chips (production byproducts) - is in a banding between 80% to 100%*
- m. Volume of tertiary feedstock: Latvia, Lithuania, Sweden, Norway and Finland, sawdust (production byproduct) – is in a banding between 0% to 19%*

* The volume or sourced feedstocks are indicated in a bands. Actual figures of feedstock consumption are not provided due to commercial sensitivity of the data.

Disclosure of the exact figure would reveal commercially sensitive information that could be used by competitors to gain competitive advantage. It is of particular importance due to saturated, highly competitive market of pellets productions in Latvia. Knowledge of this information can facilitate competitors to use price regulating mechanisms in feedstock sourcing, through offering better feedstock procurement conditions thus gaining advantage and distracting suppliers from supplying feedstock to pellet producer in highly competitive market conditions.

3 Requirement for a Supply Base Evaluation

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

Not applicable as feedstock are from SBP approved chain of custody schemes.

4 Supply Base Evaluation

4.1 Scope

Not applicable

4.2 Justification

Not applicable

4.3 Results of Risk Assessment

Not applicable

4.4 Results of Supplier Verification Programme

Not applicable

4.5 Conclusion

Not applicable

5 Supply Base Evaluation Process

Not applicable.

6 Stakeholder Consultation

Not applicable to SBP approval if SBE is out of scope.

6.1 Response to stakeholder comments

Not applicable

7 Overview of Initial Assessment of Risk

Not applicable as feedstock are from SBP approved chain of custody schemes.

8 Supplier Verification Programme

8.1 Description of the Supplier Verification Programme

Not applicable.

8.2 Site visits

Not applicable.

8.3 Conclusions from the Supplier Verification Programme

Not applicable.

9 Mitigation Measures

9.1 Mitigation measures

Not applicable.

9.2 Monitoring and outcomes

Not applicable.

10 Detailed Findings for Indicators

Not applicable as feedstock are from SBP approved chain of custody schemes.

11 Review of Report

11.1 Peer review

Approval has been made during initial evaluation by certification body NEPCon.

11.2 Public or additional reviews

For interested stakeholders the SBR is available to view on company's homepage: <http://www.scandbio.lv>, all comments can be sent to ilze.lutjanska@scandbio.com

12 Approval of Report

Approval of Supply Base Report by senior management			
Report Prepared by:	<i>Ilze Ļutjanska</i>	<i>Quality management systems specialist</i>	<i>17.06.2020.</i>
	Name	Title	Date
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:	<i>Māris Ziediņš</i>	<i>Board member</i>	<i>17.06.2020.</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 significant changes.

13.2 Effectiveness of previous mitigation measures

Not applicable.

13.3 New risk ratings and mitigation measures

Not applicable.

13.4 Actual figures for feedstock over the previous 12 months

Feedstock

- a. Total volume of Feedstock: 600 000 – 800 000* m³
- b. Volume of primary feedstock: 0 m³
- c. List percentage of primary feedstock (g), by the following categories. - percentages may be shown in a banding between XX% to YY% if a compelling justification is provided*. Subdivide by SBP-approved Forest Management Schemes: *not applicable*
 - Certified to an SBP-approved Forest Management Scheme
 - Not certified to an SBP-approved Forest Management Scheme
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- f. List percentage of primary feedstock from primary forest (j), by the following categories. Subdivide by SBP-approved Forest Management Schemes: *not applicable*
 - Primary feedstock from primary forest certified to an SBP-approved Forest Management Scheme
 - Primary feedstock from primary forest not certified to an SBP-approved Forest Management Scheme
- g. Volume of secondary feedstock: Latvia and Lithuania, sawdust and chips (production byproducts) - is in a banding between 80% to 100%*
- h. Volume of tertiary feedstock: Latvia, Lithuania, Sweden, Norway and Finland, sawdust (production byproduct) – is in a banding between 0% to 19%*

* The volume or sourced feedstocks are indicated in a bands. Actual figures of feedstock consumption are not provided due to commercial sensitivity of the data.

Disclosure of the exact figure would reveal commercially sensitive information that could be used by competitors to gain competitive advantage. It is of particular importance due to saturated, highly competitive market of pellets productions in Latvia. Knowledge of this information can facilitate competitors to use price regulating mechanisms in feedstock sourcing, through offering better feedstock procurement conditions thus gaining advantage and distracting suppliers from supplying feedstock to pellet producer in highly competitive market conditions.

13.5 Projected figures for feedstock over the next 12 months

Feedstock

- a. Total volume of Feedstock: 600 000 – 800 000* m³
- b. Volume of primary feedstock: 0 m³
- c. List percentage of primary feedstock (g), by the following categories. - percentages may be shown in a banding between XX% to YY% if a compelling justification is provided*. Subdivide by SBP-approved Forest Management Schemes: *not applicable*
 - Certified to an SBP-approved Forest Management Scheme
 - Not certified to an SBP-approved Forest Management Scheme
- d. List all species in primary feedstock, including scientific name *not applicable*
- e. Volume of primary feedstock from primary forest *not applicable*
- f. List percentage of primary feedstock from primary forest (j), by the following categories. Subdivide by SBP-approved Forest Management Schemes: *not applicable*
 - Primary feedstock from primary forest certified to an SBP-approved Forest Management Scheme
 - Primary feedstock from primary forest not certified to an SBP-approved Forest Management Scheme
- g. Volume of secondary feedstock: specify origin and type - Latvia and Lithuania, sawdust and chips (production byproducts) - is in a banding between 80% to 100%*
- h. Volume of tertiary feedstock: Latvia, Lithuania, Sweden, Norway and Finland, sawdust (production byproduct) – is in a banding between 0% to 19%*

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