

Supply Base Report:

Moelven Pellets AS Re-assessment

Sustainable Biomass Program sbp-cert.org



Completed in accordance with the Supply Base Report Template Version 2.0

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

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1 Overview

Producer name:	Moelven Pellets AS
Producer address:	Nordmoveien 60 , 3534 Sokna, Norway
SBP Certificate Code:	SBP-06-38
Geographic position:	60.242400, 9.955600
Primary contact:	Margot Øverbø, +47 470 20 417, Margot.Overbo@moelven.no
Company website:	moelven.com/no/om-moelven/moelven-pellets/
Date report finalised:	
SBR reporting period from:	01 Jan 2024
SBR reporting period to:	31 Dec 2024
Name of the Certification Body:	Control Union Certifications BV
Certification Body Approval date:	09 Dec 2024
SBP Standard(s) used:	SBP Standard 2: Feedstock Verification v2.0, SBP Standard 4: Chain of Custody v2.0, SBP Standard 5: Collection and Communication of Data v2.0, Instruction Document 5E: Collection and Communication of Energy and Carbon Data v2.0
Feedstock origin (countries)	Norway
Weblink to Standard(s) used:	https://sbp-cert.org/documents/standards-documents/standards

2 Description of the Biomass Producer and the Supply Base

2.1 Description of the company

Moelven Pellet

Moelven Pellets AS produces wooden pellets from woodworking residues of eleven sawmills. The annual production volume is 80 000 tons wood pellets. These residues for pellet production consist of sawdust, shavings and chips of Norway spruce (*Picea abies*) and Scots pine (*Pinus sylvestrisl*). All volumes are procured with an FSC and/or PEFC certification claim (SBP Compliant).

Moelven Pellets AS uses residues from the following sawmill within the Moelven Group: Moelven Soknabruket AS, Moelven Numedal AS, Moelven Van Severen AS, Moelven Granvin Bruk AS, Moelven Våler AS, Moelven Trysil As, Moelven Østerdalsbruket AS and Moelven Mjøsbruket AS. In addition Moelven Pellets AS uses residues from the group-external sawmills Begna Bruk AS, Telemarksbruket AS, Bergene Holm Haslestad and Bergene Holm Larvik.

All sawmill within the Moelven Pellets supply base uses locally harvested sawlogs. The residues from the production of a saw log (100%) in Norway is typically 25% pulp chips and 20% sawdust & shavings.

The Norwegian forest

In total 37% of Norway's land area, or about 122000 km2 is covered by forests or wooded land. There is approximately 75 000 km2 of productive forest area in Norway.

Standing volume has been double since 1925 and the harvesting is less than the increment every year. One fourth of Norwegian land area is productive forest. In 2016, the total stock in Norwegian forests is 952 million cubic meters, and over the last ten years the volume has grown 25 per cent. The annual increment was almost 26 million cubic meters. In productive forest, the annual increment amounted to 23.8 million cubic meters; of which 18.5 million cubic meters are in conifer forest. In 2015, the forest owners cut 10.2 million cubic meters industrial roundwood for sale. In addition, 2.5 million cubic meters fire wood was used by the households. In total, forest owners invested NOK 372 million in silviculture and forest roads. In 2014, almost 16 000 persons were employed in Norwegian paper mills, sawmills and woodworking industry.

In 2023 there was harvesting 11,6 million cubic meters industrial roundwood for sale. About 4,8 % was bioenergy, 41,4 % was pulpwood and 53,3 % was Saw wood.

Norway spruce (44 per cent) and Scots pine (31 per cent) are the most common tree species in Norwegian forests, representing 75% of the total standing stock. Broad-leaved (25 per cent) is increasing the most, and over the last ten years the volume of broad-leaved species has increased by 40 per cent.

Almost all Norwegian forests are part of a certification scheme. PEFC certification covers 98 % of al industrial roundwood (73 million decares forest area). About 100 forest properties has a double certification FSC/PEFC (4,4 million decares forest area)

Annually, Norwegian forests absorb 25 million tons of CO2. (about 50% of the Norwegian annual emissions of climate gases).

Forest Property

The tenure rights of ownership is 79% private and 21% public in Norway. Less than 10 per cent is owned by the government and the remainder is owned by companies, forest-commons and municipalities. The average property size in 2017 is 55 hectares of productive forest area. The total registered productive forest area amounted to 7 million hectares. In 2016, timber was cut for sale on 14 000 forest properties. The average commercial roundwood removal per property was 724 cubic meters.

80% of the timber for industrial use comes from family owned forests connected to forest owners' cooperatives. The timber cooperatives were formed about a hundred years ago by family forest owners. There are four regional forest owners' cooperatives in Norway with around 35000 members.

Forest management

The use of Norwegian forest is regulated under the Forest Act. The Forestry Act was renewed in 2005. Forestry has relatively few regulations in Norway. Harvesting is regulated by the Ministry of Agriculture and Food. The purpose of the Forest Act is to promote sustainable management of forest resources in Norway with a view to promotion of local and national economic development, and to secure biological diversity, consideration for the landscape, outdoor recreation and the cultural values associated with the forest.

Forestry in Norway is regulated by several laws and regulations that ensure sustainable management of forest resources.

1. The Forestry Act: This act gives the forest owners freedom under responsibility, and they must ensure that all measures in the forest comply with laws and regulations.

- 2. The Sustainability Regulations: Regulates how forestry must be carried out to be sustainable.
- 3. The Natural Diversity Act: Protects biological diversity and ecosystems.
- 4. The Outdoors Act: Regulates the general public's right to travel in outlying areas.
- 5. The Planning and Building Act: Contains provisions on planning and approval of agricultural roads
- 6. The Motor Traffic Act: Regulates motorized traffic in rural areas

These laws and regulations help to ensure that forestry in Norway is both economically and environmentally sustainable.

Protected areas

In 2016, the Parliament decided goal of protecting 10 per cent of the Norwegian forested areas, partly through voluntary protection, partly through conserving public forests.

Species

CITES species are present in Norway, but do not include any tree species.

Norway has formally adopted a Red List classification of species in accordance with criteria from the International Union for Conservation of Nature (IUCN). The most recent edition of the Norwegian Red List (2015) includes 4438 species, 2355 of which are considered to be threatened (critically endangered, endangered or vulnerable), while 1235 are listed as near threatened. In Norway, land-use change is considered to be a threat to 90 % of all critically endangered, endangered and vulnerable species (threatened species). Commercial forestry is a threat to 41% of these vulnerable species. More species are associated with forests than with any other main habitat in Norway (26,000 known species of plants and animals). Almost half (48 %) of all threatened species in forest habitats are in the species groups fungi (353 species), beetles (230 species), true flies or Diptera (128 species) and lichens (124 species). Many of the threatened species in forest are specialists, for example found on dead wood, large deciduous broad-leaved trees, burnt areas left by forest fires, or calcareous soils. A large proportion of the red-listed species found in forests are associated with rich broad-leaved forest, even though this only makes up 1 % of Norway's productive forest area.

Norway is party to several international agreements that deal with the protection of threatened species and cover forestry and land management practices. The most important of these are the Convention on Biological Diversity, the Bern Convention, the CITES Convention and the Ramsar Conven

Products included in the scope of SBP Certification: Pellets

Number of employees: 7

Annual maximum production capacity (metric tonnes): 80000

Number of direct feedstock suppliers: 11

Approximate number of feedstock sub-suppliers: 0

Description of the chain-of-custody and upstream supply chain:

Chain-of-custody

Moelven Virke AS supply Moelven Pellets AS with woodworking residues from eight sawmill within the Moelven Group in Norway, and residues from three group-external sawmills.

Moelven Virke AS also supply all the sawmill within the Moelven Group in Norway with timber of Norway spruce (Picea abies) and Scots pine (Pinus sylvestris). Moelven Virke procures timber from timber cooperatives in Norway. 80% of the timber for industrial use comes from family owned forests connected to forest owners' cooperatives. The timber cooperatives were formed about a hundred years ago by family forest owners. There are four regional forest owners' cooperatives in Norway with around 35000 members. All trading is registered in the IT system VSYS. The transport is also registered in VSYS. VSYS also contain coordinates for every pick up point for timber at the forest road. Each load is registered as a measuring ticket. It is an independent organization (Norsk Virkesmåling) that measuring quantity and quality on the sawmill. The three group-external sawmills is also supplied with timber from timber cooperatives in Norway, and all trade is registered in VSYS. All the processing residues are procured with an FSC and/or PEFC certification claim

2.2 Detailed description of the Supply Base

Guidance: Tables below have been generated automatically for each sourcing country based on the selection of 'Feedstock origin (countries)' in section 1 above.

Annex 1 is generated by the system if the SBP SBE is used without Regional Risk Assessment(s) (RRAs). In case RRA(s) is used, further details shall be given only in section 3 below.

Annex 2 is generated if RED II SBE is in the scope for each country separately.

Country	Norway			
Area/Region				
Exclusions				
Feedstock types	Processing residues			
Feedstock Product Groups	Processing residues feedstock (4A)			
Feedstock inputs	SBP Compliant feedstock			
Is the forest managed to supply energy and non-energy markets?	Yes - Majority			
For the forests in the Supply Base, is there an intention to retain, restock or encourage natural regeneration within 5 years of felling?	Yes - Majority			
Risk assessment(s)	N/A – Primary and/or Processing residues certified to an SBP- recognised controlled scheme			
Provide a concise summary of why a SBE was determined to be required or not required here:				
All the processing residues are procured with an FSC and/or PEFC certification claim.				

The Forestry Act, requires the forest owner to ensure that the regeneration of forest is initiated within 3 years after the harvesting has taken place. The

Sustainability Regulations regulates how forestry must be carried out to be sustainable. All trading is registered in the IT system VSYS. The transport is also registered in VSYS. VSYS also contain coordinates for every pick up point for timber at the forest road. Each load is registered as a measuring ticket. It is an independent organization (Norsk Virkesmåling) that measuring quantity and quality on the sawmill.

A SBP national risk assessment has been initiated for Norway.

Feedstock types included in SBE:	Processing residues, N/A		
Includes RED II SBE:	No		
Includes RED II TOF:	No		
Size of Supply Base area (million ha):	12.0000		
Map(s) of the Supply Base area:			











2.3 Feedstock information

- a. Total volume of Feedstock: 1-200,000 m3
- b. Volume of primary feedstock: 0
- c. List of all the species in primary feedstock, including scientific name:

Picea abies	Norway spruce
Pinus sylvestris	Scots pine

- d. Was the feedstock used in the biomass removed from a forest as part of a pest/disease control measure or a salvage operation? No
 - Explanation:
- e. Hardwood (i.e. broadleaf trees): specify proportion of feedstock from (%): 0.00
- f. Softwood (i.e. coniferous trees): specify proportion of feedstock from (%): 100.00
- g. Proportion of feedstock composed of or derived from saw logs by weight (%): 53.00
- h. Indicate how you determine the proportion of saw log: Specification issued by a body exercising functions of a public nature and issued for use by sawmills in the area in which the wood was grown.
- Roundwood from fellings from forests with > 40 yr rotation times Average % volume of fellings delivered to BP (%): 100.00
- j. Select forest type(s) where the primary feedstock was sourced from: Mix of The Above
- k. Select the main harvesting system(s) used for the sourced primary feedstock: Mix of the above
- I. Volume of primary feedstock from primary forest:
- m.Volume of processing residues feedstock: 1-200,000 m3 Physical form of the feedstock: Chips, Sawdust, Other (specify)
- n. Share of SBP-recognised system claim for processing residues:

100 % PEFC

- Volume of post-consumer feedstock: 0
 Physical form of the feedstock: Chips, Sawdust, Other (specify)
- p. Estimated amount of REDII-compliant sustainable feedstock that could be collected annually by the BP: 200000 m3
- q. What is the estimated amount of REDII-compliant sustainable feedstock that could be harvested annually in a Supply Base (estimated): 1000000.00 m3

Explanation: All the processing residues are procured with an FSC and/or PEFC certification claim. The Forestry Act, requires the forest owner to ensure that the regeneration of forest is initiated within 3 years after the harvesting has taken place. The Sustainability Regulations regulates how forestry must be carried out to be sustainable. All trading is registered in the IT system VSYS. The transport is also registered in VSYS. VSYS also contain coordinates for every pick up point for timber at the forest road. Each load is registered as a measuring ticket. It is an independent organization (Norsk Virkesmåling) that measuring quantity and quality on the sawmill. SBP national risk assessment has been initiated for Norway.



3 Supply Base Risk Assessments and Risk Management Measures

Guidance: Biomass Producers shall demonstrate that any specified risks of sourcing feedstock not in compliance with SBP Standard 1 have been adequately reduced to low risk, following Standard 2 requirements. Following section applies to Biomass Producer's implementing SBP Supply Base Evaluation (SBP RRA or company own risk assessment). RED II Supply Base Evaluation details are reported in Annex 2.

☑ Not Applicable – Supply Base Evaluation not implemented

3.1 Summary of the Supply Base Evaluation

3.2 Conflicts with applicable national and sub-national legislation

3.3 Risk Management Measures

Guidance: Please provide more details about specified risk indicators in each supply country and describe mitigation measures taken to address all specified risks associated with indicators.

4 Stakeholder engagement

4.1 General description

Biomass Producer's stakeholder engagement start date: 01 Nov 2024

Biomass Producer's stakeholder engagement end date: 30 Dec 2024

Total number of stakeholders contacted: 0

Give a general description of the process of Stakeholders Engagement, including stakeholders contacted, method of communication and a summary of the comments received:

Moelven Pellets only procures processing residues from sawmills. The sawmills procure raw material from forest owners' cooperatives. The forest owners' cooperatives is regulated by several laws and regulations that ensure sustainable management of forest resources.

1. The Forestry Act: This act gives the forest owners freedom under responsibility, and they must ensure that all measures in the forest comply with laws and regulations.

- 2. The Sustainability Regulations: Regulates how forestry must be carried out to be sustainable.
- 3. The Natural Diversity Act: Protects biological diversity and ecosystems.
- 4. The Outdoors Act: Regulates the general public's right to travel in outlying areas.
- 5. The Planning and Building Act: Contains provisions on planning and approval of agricultural roads.

All rawmaterial is procurd with and 100 % PEFC claim. There are requirements for stakeholder consultation in PEFC certification. The Norwegian PEFC Forest Standard specifies that consultations with external sources of environmental information must be conducted as part of the operational planning process. This ensures that all relevant environmental considerations are taken into account in forest management and operations.

Stakeholder consultation is not necessary, but Moelven Pellets has created a plan for stakeholder engagement.

4.2 Response to stakeholder comments



5 Report updates and approval

This document is: New Supply Base Report (Assessments/reassessments)

Summary of changes: N/A



Annex 1: Detailed findings for Supply Base Evaluation indicators



Annex 2: RED II Supply Base Evaluation

Not Applicable (RED II SBE not included)



□ Not Applicable (Processing Residues and/or post-consumer feedstock not used)

Verification and monitoring of suppliers

All the suppliers are PEFC certified and the raw material is procured with a 100 % PEFC Claim. Moelven does a random invoice control every month to control the claim on the invoice.

From the sawmill in the Moelven Group there is a control from which municipality the saw logs is harvested. All trading is registered in the IT system VSYS. The transport is also registered in VSYS. VSYS also contain coordinates for every pick up point for timber at the forest road. Each load is registered as a measuring ticket. It is an independent organization (Norsk Virkesmåling) that measuring quantity and quality on the sawmill, and control the mark of the forest owner.

PEFC certification in Norway covers 98 % of al industrial roundwood From the group-external sawmills there is an agreement that all raw materials are 100 % PEFC Certified. Moelven checks the PEFC validity of group-external sawmills 4 times a year.

Feedstock inspection and classification upon receipt

Moelven collects all raw materials from its suppliers EXW. Each load is registered in the IT system VSYS. It is measured on a truck scale at Moelven Pellets. There is randomly sample for measuring moiuster, and a visual inspection at Moelen Pellets.

Supplier audit for processing residues and post-consumer feedstock

In Moelven, there are routines for auditing our suppliers. The audit includes a review of Moelven's PEFC/FSC handbook, checking sales of certified woodworking residues and checking invoices. It is a tour of the facility, checking the measuring of incoming sawlog, checking the Log Yard, chip pockets and equipment used.



Annex 4: RED II detailed findings for Trees Outside Forest (TOF) feedstock

NOTE: For "Trees outside forests (TOF) – Urban and landscape feedstock" no REDII sustainability requirements apply, only the GHG savings criteria apply (SBP REDII Bridging ID Section 4.2). The land use category in this case is neither forest land nor agricultural land. For "Trees outside forests (TOF) – Agricultural land feedstock" the applicable criteria are Article 29 paragraphs (2)-(5).

Not Applicable (RED II TOF not included)