SBP

Sustainable Biomass Program

Supply Base Report: BIOHITENERGY, Limited Liability Company

www.sbp-cert.org

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 2

2.1 General description 2

2.2 Actions taken to promote certification amongst feedstock supplier 2

2.3 Final harvest sampling programme 5

2.4 Flow diagram of feedstock inputs showing feedstock type [optional] 5

2.5 Quantification of the Supply Base 5

3 Requirement for a Supply Base Evaluation 7

4 Supply Base Evaluation 8

4.1 Scope 8

4.2 Justification 8

4.3 Results of Risk Assessment 8

4.4 Results of Supplier Verification Programme 8

4.5 Conclusion 8

5 Supply Base Evaluation Process 9

6 Stakeholder Consultation 10

6.1 Response to stakeholder comments 10

7 Overview of Initial Assessment of Risk 10

8 Supplier Verification Programme 12

8.1 Description of the Supplier Verification Programme 12

8.2 Site visits 12

8.3 Conclusions from the Supplier Verification Programme 12

9 Mitigation Measures 12

9.1 Mitigation measures 13

9.2 Monitoring and outcomes 13

10 Detailed Findings for Indicators 13

11 Review of Report 15

11.1 Peer review 15

11.2 Public or additional reviews 15

12 Approval of Report 16

13 Updates 17

13.1 Significant changes in the Supply Base 17

13.2 Effectiveness of previous mitigation measures 17

13.3 New risk ratings and mitigation measures 17

13.4 Actual figures for feedstock over the previous 12 months 17

13.5 Projected figures for feedstock over the next 12 months 17

1 Overview

Producer name:	BIOHITENERGY, Limited Liability Company
Producer location:	Sovetskaya 96/13,Lelchici , 247841 Gomel region, Belarus
Geographic position:	51.789791, 28.312297
Primary contact:	Moskalevich Yuri Alexandrovich, tel +375291401502, +375293581405 email: boihit2018@yandex.by
Company website:	N/A
Date report finalised:	20/Jan/2020
Close of last CB audit:	28/Jan/2020
Name of CB:	NEPCon
Translations from English:	Yes
SBP Standard(s) used:	Standard 2 v1.0, 26 March 2015; Standard 4 v1.0, 26 March 2015; Standard 5 v1.0, 26 March 2015.
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	☐	☐	☐	☐

2 Description of the Supply Base

2.1 General description

The supply base of Biochitenergy LLC (hereinafter referred to as Biochitenergy) includes forests that are located under the forested territory of Belarus (9.582 million ha). Biohitenergy is a woodworking company that buys coniferous sawmill waste (sawdust and wood chips, 1269 tonne were purchased in reporting period (November-December)).

All material for pellet production is purchased with a 100% FSC claim.- SBP compliant feedstok

All raw materials come from suppliers from Belarus: 2 FSC certified suppliers.

Non certified feedstock was segregated and used only for briquet production.

Biohitenergy takes the safety of wood products seriously. Therefore, each delivered load is checked for radioactive contamination. Raw materials are accepted only if the radiation does not exceed 300 Bq.

General Description of Belarus Forest Resources and Forest Management

Forests cover app. 9,582 mill. ha or 39,8 % of the country's territory (2019). Total standing stock reaches almost 1,8 billion m3 , while gross annual increment is more than 31,9 mill. m3 . In Belarus forest area per capita is 0,9 ha, or more than 180 m3 of wood. Together with the growth of total forest area, a steady increase of the areas with the maturing, mature and overmature forest stands is observed. During the last two decades the area of mature forest stands has increased more than twice.

Dynamics of indices of forest Fund of the Republic of Belarus:

Name of indocator	unit of measure	Index as at			
		1994	2001	2010	2018
1. The total area of forest fund lands	thousand hectares	8676,1	9247,5	9416,6	9582,0
1.1 Forest lands	thousand hectares	7775,9	8275,7	8598,2	8724,1
	%	89,6	89,4	91,3	91,0
1.2 Forested land – in all	thousand hectares	7371,7	7850,6	8002,4	8260,9
	%	85	85,0	85,0	86,2
mature and overmature	thousand hectares	350,1	623	804,4	1215,4
	%	4,7	7,9	10,1	14,7
2. Area under forest	%	35,5	37,8	38,5	39,8
3. The General stock of stands – in all	million m3	1093,2	1339,9	1566,1	1796,0
4. The total average inventory change	million m3	24,9	28,2	30,2	32,7
5. The average stock of plantations	м3/hectar	148	171	196	217

Tree species composition is as follows: 50.3% Scots pine, 23.2% Silver birch, 9.2% Norway spruce, 8.5% black alder, 2.1% aspen and 3.3% other species. All these species are harvested and have commercial value for the woodworking sector. No tree species included in CITES and IUCN lists are commercially planted as well as harvested in Belarus.

All forests in Belarus belong to the state and they are managed by these institutions: Ministry of Forestry (88% of all forests), President Administrative Department (7,9% of all forests), Ministry for Emergency

Situations (2.3% of all forests), Ministry of Defense (0,9% of all forests), National Academy of Science (0,4 % of all forests), local authorities (0,2% of all forests), Ministry of Education (0.3% of all forests).

Two main forest management certification schemes are present in Belarus: FSC and PEFC. By 1 st January 2019 9.4 mill. ha of forests were certified according to the FSC scheme (98.5 % of all forests). PEFC certified forests comprise of 9.4 mill. ha it's 95.0% of all forests in Belarus. The process is still ongoing and certified forest area is increasing.

Protected Areas and High Conservation Value Forests

In Belarus an environmental protection system has been in place since 1960, when a Nature Protection Committee was established. Country has ratified the Convention on Biological Diversity in 1993. Belarussian system of specially protected areas accounts for 7,7% of the country's territory. However, together with the natural sites subject to special protection, such as water conservation zones and areas of habitat and growth of rare and endangered wild animals and plant species, this figure increases to 22.1% of the country's total area.

About 75% of the original Central European mixed forest cover is estimated to be lost. Pristine and relic stands of this forest type are believed to have been eliminated completely except in Belovezha Forest, which is located on the border between Belarus and Poland. It is one of the largest and best preserved forest tract in the lowlands of Europe. It still contains a wide array of old-growth forest stands representing all the major habitat types, a rich variety of wildlife and a still not sufficiently studied numerous lower plants, fungi and slime moulds. Belovezha national park has certified its forest management according to the PEFC system since 2012.

Forest and Wood-based Industry

In Belarus wood-based industry consists of forestry (13.5% of all production), wood processing (69.5% of all production), pulp and paper (16.4% of all production) sectors. State Forest Enterprises ("Leskhozes") are also owning wood processing workshops, where logs from their forest are processed. In whole country there are 70 shops and 6 workshops, which processed more than 7.5 mill. m³ of wood every year.

In the middle of 2015, more than 75 wood processing and trading companies in Belarus had the FSC certificate. The average annual consumption of energy in Belarus is around 967 PJ, what is about 23 mill. tons of oil equivalent. It is estimated that Belarus has 611 mill. metric tons of carbon stocks in living forest biomass. Since 2007 organizations, belonging to the Ministry of Forestry, started production of wood-based renewable bioenergy. In 2013 more than 5,1 mill. m³ of wood-based biofuels were produced and in the beginning of year 2014 annual capacity for chips production reached 1,25 mill. m³ .

Sources:

Ministry of Forestry of the Republic of Belarus: http://www.mlh.by

CITES: https://www.cites.org/eng/app/index.php

WWF: http://www.worldwildlife.org/ecoregions/pa0412

Ministry of Natural Resources and Environmental Protection of the Republic of Belarus:

http://www.minpriroda.gov.by/

State Inspectorate on Wildlife Protection Under the President of the Republic of Belarus:

http://gosinspekciya.gov.by/

Convention on Biological Diversity: www.cbd.int/countries/?country=by

Belovezha National Park: http://www.npbp.brest.by/

CEPF map of Biodiversity Hotspots: http://www.cepf.net/where_we_work/Pages/map.aspx

G200 maps: http://www.panda.org/about_our_earth/ecoregions/maps/

Intact Forests Landscapes: http://www.intactforests.org/world.map.html

Global Forest Watch: http://www.globalforestwatch.org/country/BLR

2.2 Actions taken to promote certification amongst feedstock supplier

Biogitenergy sources are not only FSC raw certified. Currently, the share of FSC certified wood is 66% of the supply. Non certified feedstock is used for briquet production. Records are kept separately. Therefore, priority is given to FSC-certified suppliers, and the FSC certificate is considered an advantage. Biohitenergy actively promotes the certification of sustainable forest management by the FSC system, as well as helping suppliers meet the requirements.

2.3 Final harvest sampling programme

Not applicable.

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

For the production of pellets LLC"Biohitenergy" uses secondary raw material (FSC 100% - sawmill residues) coming from other production. The main tree species are Scots pine (Pinus silvestris), Spruce (Picea abies)

2.5 Quantification of the Supply Base

Supply Base

a. Total Supply Base area (ha): 9.582 mill. Ha
b. Tenure by type (ha): Public forests (State owned)
c. Forest by type (ha): Temperate forest type
d. Forest by management type (ha): semi-natural
e. Certified forest by scheme (ha): 9.4 mill. Ha FSC certified and 9.4 mill. Ha PEFC certified forest

Feedstock

f. Total volume of Feedstock: 1270,7 tonne
g. Volume of primary feedstock: 0m³ (no primary feedstock is used for pellet production. Note: the pellets are made from wood working residues only).
h. List percentage of primary feedstock (g): Not applicable
i. List all species in primary feedstock, including scientific name: Not applicable
j. Volume of primary feedstock from primary forest: Not applicable
k. List percentage of primary feedstock from primary forest (j): Not applicable
l. Volume of secondary feedstock: 1270,7 tonne. Wood residues used fors pellet production are in form of chips or sawdust
l. Volume of tertiary feedstock: Not applicable

3 Requirement for a Supply Base Evaluation

SBE completed	SBE not completed
☐	X

SBE is not developed because all raw materials are separately accounted for from FSC certified forests.

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

6.1 Response to stakeholder comments

Not applicable.

7 Overview of Initial Assessment of Risk

Not applicable.

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.

11 Review of Report

11.1 Peer review

Peer review has not been performed.

11.2 Public or additional reviews

Public or additional reviews have not been conducted.

12 Approval of Report

Approval of Supply Base Report by senior management			
Report Prepared by:	***Yuri Alexandrovich Moskalevich***	***Director***	***20/Jan/2020***
	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:	***Nina Ivanovna Tereshchenko***	***Chief Accountant***	***20/Jan/2020***
	Name	**Title**	**Date**
Report approved by:	***Yuri Alexandrovich Moskalevich***	***Director***	***20/Jan/2020***
	Name	**Title**	**Date**
Report approved by:	***[name]***	***[title]***	***[date]***
	Name	**Title**	**Date**

13 Updates

Not applicable..

13.1 Significant changes in the Supply Base

Not applicable.

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

See 2.5 for detailed information

13.5 Projected figures for feedstock over the next 12 months

In the next 12-month period, the company will use the raw 25 000 m3