

NEPCon Evaluation of BIOHITENERGY, Limited Liability Company Compliance with the SBP Framework: Public Summary Report

Main (Initial) Audit

www.sbp-cert.org



Completed in accordance with the CB Public Summary Report Template Version 1.4

*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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Table of Contents

1	Overview
2	Scope of the evaluation and SBP certificate
3	Specific objective
4	SBP Standards utilised
4.1	SBP Standards utilised
4.2	SBP-endorsed Regional Risk Assessment
5	Description of Company, Supply Base and Forest Management
5.1	Description of Company
5.2	Description of Company's Supply Base
5.3	Detailed description of Supply Base
5.4	Chain of Custody system
6	Evaluation process
6.1	Timing of evaluation activities
6.2	Description of evaluation activities
6.3	Process for consultation with stakeholders
7	Results
7.1	Main strengths and weaknesses
7.2	Rigour of Supply Base Evaluation
7.3	Collection and Communication of Data
7.4	Competency of involved personnel
7.5	Stakeholder feedback
7.6	Preconditions
8	Review of Company's Risk Assessments
9	Review of Company's mitigation measures
10	Non-conformities and observations
11	Certification decision

1 Overview

CB Name and contact:	NEPCon OÜ, Filosoofi 31, 50108 Tartu, Estonia	
Primary contact for SBP:	Ondrej Tarabus otarabus@nepcon.org, +420 606 730 382	
Current report completion date:	25/Feb/2020	
Report authors: :	Aliaksandr Zubkevich	
Name of the Company:	BIOHITENERGY, Limited Liability Company	
Company contact for SBP:	Moskalevich Yuri , Director	Tel. +375291401502, e-mail:
	Biohit2018@gmail.com	
Certified Supply Base:	sourcing from Republic of Belarus	
SBP Certificate Code:	SBP-07-57	
Date of certificate issue:	26/Feb/2020	
Date of certificate expiry:	25/Feb/2025	

This report relates to the Main (Initial) Audit

2 Scope of the evaluation and SBP certificate

The certificate scope covers the office located at Leninskaya 19, Mozyr and production site in 96/13 Sovetskaya str., 247841, Lelchicy, Gomel region, Belarus.

Scope description: Production of wood pellets in Gomel region, Belarus, for use in energy production and its transportation by rail to Belarusian/Latvian border, Bigosovo railway station, and Belarusian/Lituanian border, Gudogai railway station. The scope of the certificate does not include Supply Base Evaluation. The scope includes communication of Dynamic Batch Sustainability Data.

3 Specific objective

The specific objective of this evaluation was to confirm that the Biomass Producer's management system is capable of ensuring that all requirements of specified SBP Standards are implemented across the entire scope of certification.

The scope of the evaluation covered:

- Review of the BP's management procedures;
- Review of the production processes, production site visit;
- Review of FSC system control points, analysis of the existing FSC CoC system;
- Interviews with responsible staff;
- Review of the records, calculations and conversion coefficients;
- GHG data collection analysis
- Assess compliance against Instruction Document 5E: Collection and Communication of Energy and Carbon Data

4 SBP Standards utilised

4.1 SBP Standards utilised

Please select all SBP Standards used during this evaluation. All Standards can be accessed and downloaded from <https://sbp-cert.org/documents/standards-documents/standards>

- SBP Framework Standard 1: Feedstock Compliance Standard (Version 1.0, 26 March 2015)
- SBP Framework Standard 2: Verification of SBP-compliant Feedstock (Version 1.0, 26 March 2015)
- SBP Framework Standard 4: Chain of Custody (Version 1.0, 26 March 2015)
- SBP Framework Standard 5: Collection and Communication of Data (Version 1.0, 26 March 2015)

4.2 SBP-endorsed Regional Risk Assessment

Not applicable

5 Description of Company, Supply Base and Forest Management

5.1 Description of Company

BP is a pellet and briquet producing company located in Gomel region, Belarus. Total annual production capacity of pellet plant is 12000 tones. In revision period the BP started to produce pellet only in November 2019.

Company runs pellet production, as well as briquet production. Sawdust, wood chips are used in pellet production as well as used for the drier.

The secondary feedstock used for pellet production originates from Belarus, Gomel region and has FSC 100% claim.

The BP implements FSC transfer system and produced biomass is sold with FSC 100% claim.

The biomass is expected to be transported by rail to Belarusian/Latvian border, Bigosovo railway station and Belarusian/Lithuanian border, Gudogai railway station.

Pellet plant was commissioned in June 2019.

5.2 Description of Company's Supply Base

Biohitenergy LLC is a privately-owned middle size company, established in 2019. It's main activity is production of pellet and briquet. The wood supply base for **Biohitenergy LLC** processes is located in the Republic of Belarus. The feedstock used in the reporting period are:

1) SBP--compliant secondary feedstock, 100% (Wood industry residues)

The plant has 2 FSC certified suppliers of sawdust and wood chips.

Wood species: Pinus sylvestris (L.); Picea Abies

In the Republic of Belarus, forests are one of the main renewable natural resources and the most important national wealth. The total land area of the forest fund is 9.582 million hectares. Forest-covered lands occupy 8.26 million hectares. Forest cover of the territory of the Republic of Belarus reached 39.8%. The total standing stock of wood stands at 1,796 million cubic meters, including 296 million cubic meters of ripe and mature plantings. As a result of focused work on the reproduction of forests, the area covered by forests is increasing. So, over the past 60 years, the forest cover of the republic has almost doubled and reached its maximum values for more than a century. The increase is occurring both naturally and due to afforestation of badlands unsuitable for agriculture. In Belarus, along with an increase in the total area of the forest fund, a steady growth in the areas of ripening, ripe and overripe stands is observed. The share component of ripe and mature forests is 14.7%. The average age of stands is 56 years.

In the forests of Belarus 28 species of trees and about 70 species of shrubs grow. The most common tree species are: ordinary pine - 50.3%, birch - 23.2%, European spruce - 9.2%, black alder - 8.5%, oak - 3.4%, aspen - 2.1%.

Depending on the functions performed, the lands of the forest fund are divided into forests of the first and second groups. The first group includes specially protected natural territories, the share of which is 52%, the second group includes production forests intended for timber harvesting (48%).

In accordance with the legislation of the Republic of Belarus, all the lands of the forest fund are in state ownership and transferred to the use and management of state forestry institutions. Forest management in

Belarus is carried out according to the principle continuity and inexhaustibility. The average annual wood harvest is about 18 million cubic meters per year, of which:

- main cutting (in ripe stands) 40%;
- thinning and sanitary felling (in young, middle-aged and ripening stands 48%);
- other felling 12%.

Ensuring high-quality reproduction of forest resources and protective afforestation is a prerequisite for the use of forests. So in 2018 reforestation and afforestation carried out on a total area of 41.82 thousand hectares, including 34.8 thousand ha of new forests laid due to sowing and planting forests.

When harvesting wood, according to the forest legislation of the Republic of Belarus, individuals listed in the Red Book and their habitats are subject to conservation. Cutting of valuable, endangered and specially protected tree species is prohibited.

In Belarus there are two republican reserves - the Berezinsky Biosphere Reserve (85.2 thousand ha) and the Polesky State Radiation and Ecological Reserve (216.1 thousand ha), and four national parks - Belovezhskaya Pushcha (152.962 thousand ha), Braslav Lakes (69.115 thousand hectares), Narochansky (93.3 thousand hectares) and Pripyatsky (85.841 thousand hectares), 334 reserves of republican and local significance and 874 natural monuments ..

Forest certification is an effective tool to combat illegal logging and illegal timber trafficking. Two schemes of forest certification have found their place in the Republic of Belarus - the forest certification system FSC (Forest Stewardship Council) and the forest certification system of the National Conformity Certification System, recognized by the Pan-European Forest Certification Council (PEFC). Taking into account the requirements of the international scheme of the Forest Stewardship Council (FSC), 9.027 million hectares of forest fund are certified (94.2% of the total forest fund). PEFC certified forest management and forest management systems of 105 legal entities conducting forestry on an area of 9,027million hectares of forest fund.

In Belarus, the forest industry consists of forestry (13.5%), woodworking (69.5%) and pulp and paper industry (16.4%). The woodworking industry is one of the largest industries in Belarus. Woodworking accounts for approximately 2% of the total manufacturing industry of the Republic of Belarus. Forest share industry in the country's GDP is approximately 1.1%. Timber products and services are exported to 30 countries.

5.3 Detailed description of Supply Base

Total Supply Base area (ha): 9,582 mln. ha
Tenure by type (ha): public 9,582 mln. ha
Forest by type (ha): temperate 9,582 mln. ha
Forest by management type (ha): managed natural 9,582 mln. ha
Certified forest by scheme (ha): 9,4 mln. ha FSC-certified forest

Detailed information about BP's supply base may be found in their Supply Base Report available in Internet: www.biohitenergy.by

5.4 Chain of Custody system

The BP holds valid FSC Chain of certificate

<https://info.fsc.org/details.php?id=a02f300000k42jAAQ&type=certificate>

BP implements FSC transfer system of claims. The input material used by the Organisation for biomass production contains only secondary feedstock - sawdust and wood chips (for pellet production and for dryer). Secondary feedstock (sawdust and wood chips) is sourced only from external suppliers (sawmills). The BP sourced for pellet production only FSC 100% feedstock, non-certified feedstock was used only for briquet production. The organization has the segregation system in place. Physical separation is implemented – FSC certified material is stored in special place and processed separately in time when production line is cleaned of non-certified product. The organization does not use any imported material. Incoming sawdust reception register and supplier list are maintained. All material is checked during the arrival and correctly recorded in the internal system.

6 Evaluation process

6.1 Timing of evaluation activities

Onsite assessment was conducted on 28.01.2020 (8 h). Evaluation activities included documents review at office, inspection of production facilities and staff interviews. Document review was conducted during 4 hours on 23.01.2020.

Activity	Location	Date/time
Opening meeting and brief documents review.	Office in Mozyr	28/01/2020 9.00-09.20
Documents and procedures review (feedstock inputs, SBR, CoC control system and critical points, compliance with legal requirements, H&S), staff interview.	Office in Mozyr	28/01/2020 09.20-15.00
Chain of custody review (site tour); staff interview	Production facilities	28/01/2020 16.00-16.30
Closing meeting	Production facilities	28/01/2020 16.30-17.00

6.2 Description of evaluation activities

Composition of audit team:

Auditor(s), roles	Qualifications
Aliaksandr Zubkevich Lead auditor Evaluation against all applicable requirements	Mr Aliaksandr Zubkevich has education of engineer-economist in timber industry. He had postgraduate study at the Belarusian State Technological University. A. Zubkevich has passed FSC CoC/ FM lead auditor training course, Legal Source, ISO 14001 and SBP training coursed. Previous experience in woodworking industry and SBP pre-assessment and assessments in Belarus.

The evaluation visit was focused on management system evaluation: division of the responsibilities, document and system, input material classification (reception and registration), analysis of the existing FSC system and FSC system control points as well as GHG data availability.

Description of the audit evaluation:

All SBP related documentation connected to the SBP as well as FSC CoC system of the organisation, including SBP Procedure, SAR and GHG data calculations, Supply Base Report and FSC system description was provided by the company in the beginning of the assessment. Assessment started with an opening meeting attended by the representatives from Organisation's management and staff.

Audit team leader introduced himself, provided information about audit plan, methodology, auditor qualification, confidentiality issues, and assessment methodology and clarified certification scope. During the opening meeting the auditor explained CB's approval related issues.

After that auditor went through all applicable requirements of the SBP standards nr. 2, 4, 5 and instruction document 5E covering input clarification, existing chain of custody system, management system, CoC, recordkeeping/mass balance requirements, emission and energy data and categorisation of input and verification of SBP-compliant biomass. During the process, overall responsible person for SBP system and other staff were interviewed.

After a roundtrip around BP's pellet production was undertaken. During the site tour, applicable records were reviewed, staff was interviewed and FSC system critical control points were analysed. Audit continued in office in Mogilev where data in accountant program was verified.

At the end of the assessment findings were summarised and assessment conclusions based on use of 3 angle evaluation method were provided to the management and SBP responsible person.

Impartiality commitment: NEPCon commits to using impartial auditors and our clients are encouraged to inform NEPCon management if violations of this are noted. Please see our Impartiality Policy here: <http://www.nepcon.org/impartiality-policy>

6.3 Process for consultation with stakeholders

The stakeholder consultation was carried out on 22.12.19 by sending direct email to different stakeholder categories (more than 120 recipients). No comments from the stakeholders have been received. List of informed stakeholders includes such groups of stakeholders as FSC National Initiative, environmental and social NGOs, FSC-certified companies in the region, scientific and educational entities, indigenous peoples' communities (where applicable), state forestry authorities, trade unions etc.

7 Results

7.1 Main strengths and weaknesses

Strengths: Use of the FSC transfer system. Effective recordkeeping system. Small number of the management staff and clearly designated responsibilities within the staff members.

Weaknesses: No significant weaknesses identified by auditor New production plant, use of the theoretical calculation and imperial data. See minor NCR

7.2 Rigour of Supply Base Evaluation

Not applicable.

7.3 Collection and Communication of Data

The following energy sources are used by BP: electricity for pellet production; diesel for feedstock handling, shipping and for biomass transportation to customer. Electricity consumption value is based invoicing from supplier; diesel consumption value is based on accounting system.

7.4 Competency of involved personnel

Overall, BP staff showed good understanding of knowledge of all applicable SBP requirements. The following key staff members are involved to SBP certification: SBP related staff responsibilities are presented in Section 3 of the SBP Procedure. Interviewed staff was well familiar with their responsibilities. Generally, very few staff members are involved into SBP certification: SBP responsible/director (maintaining of the management system, staff training, trademark use), chief of pellet plant (moisture measurements), chief accountant (verification of incoming invoices and transport documents, performance of outgoing invoices and transport documents). Prior and during SBP assessment, BP was supported by external consultant, who also have provided relevant training to BP staff.

7.5 Stakeholder feedback

No feedback from stakeholders have been received prior, during and after this assessment.

7.6 Preconditions

None

8 Review of Company's Risk Assessments

Describe how the Certification Body assessed risk for the Indicators. Summarise the CB's final risk ratings in Table 1, together with the Company's final risk ratings. Default for each indicator is 'Low', click on the rating to change. Note: this summary should show the risk ratings before AND after the SVP has been performed and after any mitigation measures have been implemented.

Not applicable.

9 Review of Company's mitigation measures

Not applicable.

10 Non-conformities and observations

Identify all non-conformities and observations raised/closed during the evaluation (a tabular format below may be used here). Please use as many copies of the table as needed. For each, give details to include at least the following:

- applicable requirement(s)
- grading of the non-conformity (major or minor) or observation with supporting rationale
- timeframe for resolution of the non-conformity
- a statement as to whether the non-conformity is likely to impact upon the integrity of the affected SBP-certified products and the credibility of the SBP trademarks.

NC number 01/20	NC Grading: Minor
Standard & Requirement:	Standard #2: Verification of SBP-compliant feedstock, 2C 4.1The report shall be concise, covering the most important features, and shall be completed using the latest versions of the SBR Template for Biomass Producers downloaded from the SBP website
Description of Non-conformance and Related Evidence:	
The Supply Base Report is concise and contains all information required by SBP. But there are some mistake in the SBR, for example in section 2.5 there are no information about area in ha in points b)-d)	
Timeline for Conformance:	By the next surveillance audit, but no later than 12 monhts from report finalisation date
Evidence Provided by Company to close NC:	<i>Click or tap here to enter description provided by Company to close the NC.</i>
Findings for Evaluation of Evidence:	<i>Click or tap here to enter findings for evaluation of evidence by the auditor.</i>
NC Status:	Open

NC number 02/20	NC Grading: Major
Standard & Requirement:	Standard #4: Chain of Custody 5.3.1 All requirements of the relevant chain of custody control system specified in the SBP-approved CoC system shall be implemented to calculate outputs.

Description of Non-conformance and Related Evidence:	
<p>The following average conversion factor was established by BP: 2,0 solid m3 of secondary feedstock (sawdust and wood chips) for production of 1 tone pellets. The conversion factor is theoretically calculated and not based on factual measuring. Auditor has conducted calculation using methodology explained by the BP and come to another conversion factor which is higher than is using by the B. The calculation is as follow. Mass density of pine with moisture 8% is 510 kg/m3, mass density with moisture 50% is 861 kg/m3 (mass density is from Wood fuel handbook). The amount of water needed to vaporize from 1 solid m3 of sawdust is (861-510) 351 kg. To produce 1 tone of pellet with moisture 8% need 1,84 tone (2.14 solid m3) of feedstock with moisture 50% (100-8)/(100-50) and need to vaporize 751,14 kg of water. Under normal atmospheric pressure, the specific heat of vaporization of water is 2258 kJ / kg. To vaporize 751.14 kg of water need (751.14 kg*2258 kJ / kg) 1696074,12 kJ or 1396.07 Mj. Net caloric value of feedstock used for drier with moisture 50% is 8030 MG/t. Volume of feedstock needed for drier is 1696.07/8030=0.211 t or 0,245 m3. So, based on calculation 2,14+0,245=2.385 solid m3 shall be used to produce 1 tonne of pellet from feedstock with 50% moisture.</p>	
Timeline for Conformance:	Prior to (re)certification
Evidence Provided by Company to close NC:	The letter 20/02 dated 20.02.2020 About control of feedstock input (exh
Findings for Evaluation of Evidence:	During the period between closing meeting and report approval the BP has sent the letter 20/02 dated 20.02.2020. The director informed that they started to measure volume of feedstock used for biomass production to calculate conversion factors. The feedstock volume is measure based on quantity of loader shovels. The BP has provided records of measuring starting from February 2020. In accordance with provided records 773 solid m3 with average moisture 42% was supplied and 371,632 tonne of pellets produced. The director informed that such measurements will be done on regular basis. The auditor agreed that the BP implemented robust system of measuring conversion factor.
NC Status:	Closed

NC number 03/20	NC Grading: Minor
Standard & Requirement:	<p>Instruction document 5E</p> <p>6.2.2 The BP must inform its CB when a significant change in the operations occurs, resulting in a variation of electricity use or fossil fuel use greater than 25%. In that case, a new audit shall be required as soon as stable operations have been reached during three (3) consecutive months after the change has occurred</p>
Description of Non-conformance and Related Evidence:	
<p>There are no requirement in SBP procedure to inform CB when a significant change in the operations occurs, resulting in a variation of electricity use or fossil fuel use greater than 25%. / В процедуре</p>	

<p>организации нет требования информировать свой орган по сертификации об изменениях в производстве, которые приведут к изменению в потреблении электричества, дизеля более чем на 25%.</p>	
<p>Timeline for Conformance:</p>	<p>By the next surveillance audit, but no later than 12 months from report finalisation date</p>
<p>Evidence Provided by Company to close NC:</p>	<p><i>Click or tap here to enter description provided by Company to close the NC.</i></p>
<p>Findings for Evaluation of Evidence:</p>	<p><i>Click or tap here to enter findings for evaluation of evidence by the auditor.</i></p>
<p>NC Status:</p>	<p>Open</p>

11 Certification decision

Based on the auditor's recommendation and the Certification Body's quality review, the following certification decision is taken:	
Certification decision:	Certification approved
Certification decision by (name of the person):	Olesja Puiso
Date of decision:	25/Feb/2020
Other comments:	<i>Click or tap here to enter text.</i>