# SBP Audit Report (SAR) on Energy and Carbon Data for Pellets

### for Biomass Producers producing pellets<sup>1</sup>

#### Version 2.2

SBP certificate holder number: **SBP-13-14** SBP certificate holder name: **Bioena S.A.S** 

Please visit www.sbp-cert.org for more information about the biomass producer

Reporting period: Reporting period (should be based on 12 months) and the start date shall not be older than 18 months from the audit date.

From: 01-October-2023

To: 07-November-2024

#### **SAR** expiry date

(=date of the first audit closure for the reporting period+ 15 months): 07-February-2026

• <sup>1</sup> and woodchips if both stationary chipping and thermal treatment are carried out on a separate processing site.

### **Contents**

- 1 Generalities
  - 1.1 General information on the Biomass Producer
  - 1.2 Justifications for data provided and methodologies used
  - 1.3 Basic information on the Certification Body (CB)
- 2 Feedstock data
  - 2.1 Feedstock Groups as defined by local industry practice
  - 2.2 Use of energy and chemicals in forests or plantations for biomass feedstock (optional)
  - 2.3 Other relevant information, including justifications for data provided and methodologies used
  - 2.4 Validation by the Certification Body
- 3 Biomass production
  - 3.1 Total production
  - 3.2 Electricity use
    - 3.2.1 Other relevant information, justifications for data provided and methodologies used
    - 3.2.2 Validation by the CB
  - 3.3 Use of fossil fuels
    - 3.3.1 Other relevant information, justifications for data provided and methodologies used
    - 3.3.2 Validation by the CB
  - 3.4 Use of biomass fuels
    - 3.4.1 Other relevant information, justifications for data and methodologies used
    - 3.4.2 Validation by the CB
  - 3.5 Moisture content and drying
    - 3.5.1 No drying
    - 3.5.2 Drying applicable
    - 3.5.3 Information where a conventional boiler is used
    - 3.5.4 Information where a CHP is used
    - 3.5.5 Other relevant information, justification for data provided and methodologies used
    - 3.5.6 Validation by the CB
- 4 Transport of biomass
  - 4.1 General transport data
  - 4.2 Storage and handling of biomass
  - 4.3 Regional map demonstrating biomass producer and location of SDIs
  - 4.4 Other relevant information, including justifications for data provided and methodologies used
  - 4.5 Validation by CB
- 5 Dynamic Batch Sustainability Data (DBSD)
  - 5.1 Validation by the CB
- 6 Key dates and representatives
  - 6.1 Certificate Holder
  - 6.2 Certification Body
  - 6.3 SAR validation and upload in the DTS

Appendix 1: Photographs/illustrations

Appendix 2: Production process

#### 1 Generalities

### 1.1 General information on the Biomass Producer

Company name	Bioena S.A.S
Contact person on site	Ricardo Benítez
Contact person's function	Supply Manager
E-mail address	rb@bioena.co
<b>Address</b> (physical location of the biomass production unit, pellet plant or woodchips processing unit)	Km 54,1 Ruta del Sol 3 Bosconia - Santa MartaDesviación vía a Monterrubio Km 1. Algarrobo, Magdalena, Colombia.Algarrobo, Magdalena
Telephone	+57 3228848049
<b>DBSD enabled?</b> (has BP established the system for feedstock groups and is allowed to use the 99 code in DTS)	Yes

### 1.2 Justifications for data provided and methodologies used

This space made be used to provide additional information appropriate to the whole SAR, for example selection of a reference period other than 12 months or how recording of data has been undertaken for a recently commissioned plant.

The information to be provided is based on projected consumption for a 12-month period, using consumption values given by the production facility's manufacturer. These values, however, will be adjusted once the construction phase is completed.

### 1.3 Basic information on the Certification Body (CB)

Name of the Certification Body	NEPCon OÜ trading as Preferred by Nature
Audit team members	Pilar Gorría Serrano
Qualifications of team members	Forest engineer (Politecnic Univ. Of Madrid).

	Has successfully completed SBP training course and the NEPCon Lead auditor training for FSC /PEFC CoC and FM certification. Has experience from forest certification (FSC / PEFC FM), traceability (FSC / PEFC CoC) and biomass certification (SBP - Sustainable Biomass Program) for more than 10 years.
Contact details of the auditor (email)	pgorria@preferredbynature.org

### 2 Feedstock data

### 2.1 Feedstock Groups – as defined by local industry practice

<u>Guidance:</u>please click on the column and then click on "+" button on the right to add another column It is not required to include feedstock that is ONLY used as biomass fuel, but optionally this can be done if data are available and verifiable.

If part of the Feedstock Group is diverted as biomass fuel, then consider the TOTAL mass here and add also a corresponding line in Table 3.5

### Complete all columns, mark N/A if not relevant.

Give the total raw mass of feedstock as received		
used for biomass production on the reporting	131787	metric tonne as received
period, <b>including</b> shares diverted as biomass fuel <sup>1</sup>		

	1	2	3
Origin	Final harvest from plantations	Processing residues	Processing residues
Feedstock type	Low grade stemwood	Sawmill and wood industry residues	Sawmill and wood industry residues
Physical description	Roundwood	Offcuts	Chips
Country of harvest (new column for each country) <sup>4</sup>	CO (Colombia)	CO (Colombia)	CO (Colombia)
Region/State	Colombia	Colombia	Colombia
Raw mass as received in metric tonnes	113237	9580	7920
Moisture % as received (weighted average, single figure) <sup>2</sup>	30	25	25
Weighted average distance (km)	155	374	374
Maximum distance (km) 252		654	654
Vehicle	Truck	Truck	
Vehicle powered by	Diesel oil		
Weighted average load of the vehicle	34	30	30
Specify any pre- processing OUTSIDE the BP plant (chipping, drying, none) <sup>3</sup>	N/A	N/A	N/A

	4	5	6
Origin	Processing residues		
Feedstock type	Sawmill and wood industry residues		
Physical description	Shavings		
Country of harvest (new column for each country) <sup>4</sup>	CO (Colombia)		
Region/State	Colombia		
Raw mass as received in metric tonnes	1050		
Moisture % as received (weighted average, single figure) <sup>2</sup>	25		
Weighted average distance (km)	146		
Maximum distance (km)	187		
Vehicle	Truck		
Vehicle powered by	Diesel oil		
Weighted average load of the vehicle	30		
Specify any pre- processing OUTSIDE the BP plant (chipping, drying, none) <sup>3</sup>	N/A		

<sup>&</sup>lt;sup>1</sup>Sum of raw mass as received in metric tonnes for all feedstock types

### 2.2 Use of energy and chemicals in forests or plantations for biomass feedstock (optional)

Currently, it is common practice that End-Users use the disaggregated default value for eec, as provided in Annex VI of REDII. However, sometimes data on use of energy and chemicals in forestry operations may be available and may be collected by the Biomass Producer. The End-User may benefit from using actual values. The table below may be used in that case. You can also mark N/A where relevant (e.g., no fertilisers or other chemicals used).

<sup>&</sup>lt;sup>2</sup>Where the moisture content of the feedstock is not recorded; the BP may provide an estimate or use a default value.

<sup>&</sup>lt;sup>3</sup>If chipping or drying takes place inside the pellet or chipping plant then please specify the information in the relevant sections 3.3 and 3.4

<sup>&</sup>lt;sup>4</sup>Nation or large region of nation (like State of USA, Province of Canada, Region of Russia)

Feedstoo	ek Harvest	Diesel fuel	Electricity	Types and quantities of fertilisers	Quantity of	Quantity and	
Group	yield (kg	consumption for,	consumption	used (specify (if applicable): quantity	chemicals (e.	type of raw	
number	harvest	e.g., tractors,	(kWh/	of P2O5, K2O, CaO, mineral and	g. pesticides)	materials used (e.	
(from	yield dry/	harvesters (l/	(ha*year))	organic N fertilisers (kg/(ha*year)))	(kg/	g., seeds) (kg/	
previous	$(ha*year))^2$	(ha*year))			(ha*year))	(ha*year))	
table)							

### 2.3 Other relevant information, justifications for data provided and methodologies used

Please mention at the minimum:

- for the Origin, the evidence elements assessing the thinning character of the origin,
- for the Feedstock type, the evidence elements assessing the low grade character of the stemwood, in comparison with local high grade specifications (like sawlogs for local sawmills).
- you may also specify optional data on energy use and chemicals in forests

The methodology will focus on four primary species for consumption: Eucalyptus tereticornis, Gmelina arborea, Tectona grandis, and two pine species, Pinus patula and Pinus maximinoi, which were introduced to Colombia primarily in the 1980s. The use of Eucalyptus tereticornis in sawmill operations is limited due to its physical properties, particularly its hardness. Although it was initially employed for poles in rural electrification and telecommunication, it was later excluded as an authorized material following specific national regulations. For gmelina, teak, and pine, lower-grade wood is utilized within the sawmill industry. The residual wood waste generated through this process will serve as the primary feedstock for the pellet plant.

### 2.4 Validation by the Certification Body

Parameter	Comments/information
Origins	What evidence was available on site to confirm the origins? (for example, CMR, supplier invoices, supplier contracts, registers), in particular for thinnings:
	Origin was verified by checking purcahse agreements with the planned feedstock and doing field visits at FMU level where eucalyptus plantations where verified as well as the harvesting procedures through interviews with BP forest responsible.
Feedstock types	What evidence was available on site to confirm origins and feedstock types? (for example, CMR, supplier invoices, supplier contracts, registers, physical evidence on site), in particular for the low grade character of stemwood.
	Origin was verified by checking purcahse agreements with the planned feedstock and doing field visits at FMU level where eucalyptus plantations where verified as well as the harvesting procedures through interviews with BP forest responsible. Interviews with local stakeholder were also conducted to verify local industry.
Physical description and raw mass	What evidence was available on site to confirm those data?

	Biomass Producer has not started to do any harvesting or receive any material. So no visual observation was conducted at the BP storage site. Primary feedstock has been observed at the FMU and secondary supplier was visited by COC adit team, where secondary feedstock could be verified.
Distances	Are the average distances validated by checking locations on a map?  Yes
Vehicles	Was the auditor able to confirm the type of vehicles / transport facilities used to transport the feedstock to the production site? (visual checking?)  Yes

## 3 Biomass production

Please see appendix 1 for photos and full description of the production process. Biomass product can be wood pellets or woodchips or energy logs

## 3.1 Total production

Annual production	Actual biomass production (1)	Production during reporting period		
		38627	metric tonnes	
	Design capacity:	125000	metric tonnes of biomass product/year	
	Average lower heating value:	18,6	MJ/kg (wet basis) average for the reporting period	
(CB) What evidence is available to substantiate the reported annual biomass production? Options include: internal registers or annual reports.		Biomass Producerhas not started with production activities. Biomass production data is based on technical information of the equipements and installed machinary, as well as moisture content of feedstock and feedstock amount agreed with supplies in the current purchase contracts.		

## 3.2 Electricity use

Not applicable			
Give the origins of the electricity	from network	kWh	
	✓on-site generation	8847144 kWh	
	☐ CHP plant (see 3.5.4)	kWh	
used in the biomass production process during the reporting	wind or solar farm	kWh	
period (2)	other (specify)	kWh	
	Total specific electricity use sum of (2)/(1)	229.04 kWh/metric tonne	
	invoices of external electricity supplier a achieved,	and biomass production	
Explain <b>how</b> this energy	✓ specific fuel consumption and electrical efficiency of installed		
consumption has been <b>evaluated</b> :	cogeneration plant and biomass production		
	a theoretical evaluation based upon specific consumption of		
The calculation method based	installed machinery and nominal production	n capacity of the plant	
on electricity <b>invoices</b> is the most	Other explanation:		
accurate and reliable one. This	Calculation: Bioena will use natural gas from the local network		
method <u>must</u> be used if feasible.	supplied by Gases del Caribe, which will handle the invoicing for		
	monthly consumption. Consumption will be	e closely monitored	
Please provide the calculation	through dedicated meters installed by the supplier, ensuring precise		
itself	and continuous measurement. The gas will power electric generators,		

which will record the output in kilowatt-hours (kWh), providing detailed oversight of both gas usage and energy output.

## 3.2.1 Other relevant information, justifications for data provided and methodologies used

BIOENA will initiate raw material supply to ensure a substantial stock volume for production. However, due to the initial production conditions, machinery calibration, and production stabilization processes, the output of finished products will be significantly lower than the available stock of raw materials. This discrepancy will be carefully managed through meticulous records of raw material inventory in the lumber yard, production orders, and finished product stock in each storage location at the plant and port, respectively.

### 3.2.2 Validation by the CB

(CB) What evidence / explanation was made available to the auditor :

Theoretical calculation has been provided by the Biomass Producer based on installed or projected machinary. As the Biomass Producer is still to be commisioned the theoretical approach is valid and new audit will be planned arround MAy 2025 when the plant will be fully operational.

#### 3.3 Use of fossil fuels

## Not applicable

Each fossil energy source must be described in detail in the table hereunder. Use as rows as necessary in order to cover each fossil fuel. If any responses are marked as 'other', please include further detail in the box below (also for offsite chipping by third party)

	1	2	3
Type of fossil fuel	Natural gas	Diesel oil	
Total consumption during reporting period (value)	11,72	81847	
Units	MJ / Metric Tonne pellets (natural gas only)	Litre (liquid only)	
For gaseous fuels specify high or low heating value	N/A	N/A	
Processing step using fossil fuels	Other or multiple uses (please specify) Bioena has designed a plant powered by natural gas to supply the energy required for pellet production. The natural gas usage is monitored closely on a monthly basis and is invoiced by the utility provider. This setup ensures effective	Handling	

	tracking of energy		
	consumption and a		
	consistent, reliable		
	energy supply for		
	continuous production.		
How has this energy	Fuel consumption	Fuel consumption	
consumption been	monitored by supplier	monitored by supplier	
calculated:			

## 3.3.1 Other relevant information, justifications for data provided and methodologies used

BIOENA will use natural gas to preheat the biomass in the process dryer until it reaches 600°C. Once this temperature is achieved, a burner fueled by dry biomass powder of a specific granule size will take over, maintaining the optimal temperature needed to dry the biomass.

### 3.3.2 Validation by the CB

(CB) What evidence / explanation was made available to the auditor :

Theoretical calculation has been provided by the Biomass Producer based on installed or projected machinary. As the Biomass Producer is still to be commisioned the theoretical approach is valid and new audit will be planned arround MAy 2025 when the plant will be fully operational.

### 3.4 Use of biomass fuels

Not	app	lica	ble
- 100	TPP.		~

Use as many columns as necessary in order to cover each type of biofuel and each process.

	1	2	3
Feedstock ID Group in Table 2.1 if applicable or NA <sup>1</sup>	1-2-3-4		
Biomass type <sup>2</sup>	Saw mill residues (dust, chips,)		
Total consumption during reporting period (value)	8345		
Units	Raw metric tonne		
Moisture content %as received, point of use	10%		
Processing step using biomass fuels	Chipping/Crushing		
How has this energy consumption been calculated:	Theoretical calculation based on specific		

	consumption of installed		
	machinery		
_	verted from Feedstock Groups, please me s used as a fuel must be described per typ		
3.4.1 Other releva	nt information, justificatio	ons for data and method	dologies used
After passing through	used as burner fuel is sourced d the second hammer mill, the de	ry product is refined to the	•
and moisture level to 6	ensure optimal burner efficienc	y.	
3.4.2 Validation b	v the CB		
	v		
Theoretical calculation machinary. As the B	/ explanation was made availa on has been provided by the Bi iomass Producer is still to be co arround MAy 2025 when the	omass Producer based on i ommisioned the theoretical	approach is valid and new
3.5 Moisture conto	ent and drying		
	part of the biomass production	on process? If no comple	to table 3.5.1
If yes, complete table		on process: 11 no, comple	te table 5.5.1.
• , •			
3.5.1 No drying	ng		
Only complete this	table if no drying is undertak	en.	
	• 0		

Feedstock Moisture content		
Initial moisture of the feedstock, as received		% (wet basis)
Explain, with reference to its origin, why the moisture content of the feedstock is sufficiently low to enable the production of biomass product without prior drying.		
Explain how it is monitored / evaluated?	<ul> <li>□ weighted average of moisture measurements performed on each individual feedstock shipment (one measurement per delivery)</li> <li>□ typical values based on some moisture measurement (frequency of measurements=)</li> <li>□ supplier / process specifications (documents available:)</li> <li>□ other explanation:</li> <li>□ no evidence or explanation available</li> </ul>	
Biomass moisture content		
Moisture of biomass as produced		% (wet basis)

## **✓** 3.5.2 Drying applicable

## Only complete this table if drying is undertaken. This table must be completed for each type of dryer

## Biomass Dryer 1

Moisture content		
Initial moisture of the feedstock, as received	35	% (wet basis)
Explain how it is monitored / evaluated  Tick all boxes that apply and provide additional information in 3.3 as required	✓ weighted average of moisture measurements performed on each individual feedstock shipment (one measurement per delivery)  ☐ typical values based on some measurements (frequency of measurements=) ☐ supplier / process specifications (documents available:) ☐ default values e.g. for round wood ☐ other explanation: ☐ no evidence or explanation available	
Moisture of feedstock at the dryer outlet, if measured (target moisture)	10	% (wet basis)
Moisture of the finished biomass product (as produced)	10	% (wet basis)
Dryer		
Type  Energy carrier (The energy carrier is the transfer medium circulated in pipes	✓drum dryer  □ belt dryer □ other (specify) □ steam □ hot water ✓hot air / flue gases	
and used to transport the heat from the boiler/burner to the dryer.)	other (specify)	
Heat consumption  If a heat meter is installed, calculate how much heat energy from the boiler is provided to the dryer and give details of the calculation.	☐ heat meter installed:  consumption = kWh  ✓no heat meter installed	
Detailed calculation of the heat consumption	In the biomass drying process, a biomass burner heats the air inside the drum dryer, consuming biomass at a rate of 3.4 tons per hour. This approach effectively reduces the moisture content in the biomass, preparing it for	

	subsequent production stages and ensuring efficient processing.
Origin of the heat used in the drying process	✓burner  □ conventional boiler □ CHP (combined heat and power)
.5.3 Information where a convention	

Not applicable		
Report fossil and biomass fuels used as input resp. in	1 3.3 and 3.4 under 'boiler'	
Total heat output from boiler that is effectively recuperated and used in an application during reporting period		kWh
Total heat output from boiler that is used in drying during reporting period	604	kWh
How has this data been calculated (e.g. metered data, theoretical calculation based on specific consumption of installed machinery)	BIOENA's plant design include generates steam, which is fed in condition the mixture before pe enhances the efficiency of light	nto the equipment to elleting. This process

## 3.5.4 Information where a CHP is used

CHP Information 1	
Fuel input of CHP	
Report fossil and biomass fuels used as input resp. in <b>3.3</b> and <b>3.4</b> under 'ons' as relevant and calculate corresponding (1) and (2) values below.	ite CHP' or '3rd party CHP'
(1)	
Total fuel input quantity (unit= t, m <sup>3</sup> or litre)	
(2)	
Weighted average lower heating value	
of total fuel input, as received (resp. unit= MJ/t, MJ/m <sup>3</sup> or MJ/litre)	
(3) Total fuel input =(1) x $(2)/3.6$	kWh
Electricity output of CHP	
(4) net electricity used <u>on site of BP</u> for biomass production as copy/pasted from 3.2 under 'CHP plant'	kWh
(5) net electricity used on site of BP but not for biomass production	kWh

(6)	kWh
other net electricity generated by CHP that is not used on	
site of BP and is not self-consumption by CHP	
(7) Total net electricity from CHP = $(4) + (5) + (6)$ , excluding self-consumption by CHP	kWh
Heat output of CHP	
(8) Reference temperature of heat at the point of use (if measured)	<sup>0</sup> C
(9)	kWh
net heat used on site of BP for biomass production	K VV II
(10)	
net heat used on site of BP but not for biomass	kWh
production	
(11)	kWh
other net <u>heat used</u> by any other party	KVVII
(12)	kWh
total net heat <u>used</u> from CHP = $(9) + (10) + (11)$	K VV II
CHP yield	
<b>Total net CHP yield</b> (=(7) +(12))/ (3)	%
How has this data been calculated (e.g. metered data, theoretical calculation based on specific consumption of installed machinery)	

## 3.5.5 Other relevant information, justifications for data provided and methodologies used

When some data among (1) to (12) is not available, please justify. In all cases at least the best estimate possible for (3), (4), (7), (9) and (12) must be given, as well as the distinction between fossil or biomass origins of the fuels.

In the biomass drying process, a biomass burner heats the air inside the drum dryer, consuming biomass at a rate of 3.4 Metric tons per hour. This approach effectively reduces the moisture content in the biomass, preparing it for subsequent production stages and ensuring efficient processing.

### 3.5.6 Validation by the CB

(CB) What evidence / explanation was made available to the auditor to substantiate the Biomass production chain moisture content of the feedstock and drying of feedstock: Theoretical calculation has been provided by the Biomass Producer based on installed or projected machinary. As the Biomass Producer is still to be commissioned the theoretical approach is valid and new audit will be planned arround MAy 2025 when the plant will be fully operational.

## 4 Transport of biomass

Static Data Indicators (SDIs) included in this report: [In format XX-YY-ZZ]	Description of SDI  (This should include geographic location, and where appropriate type of facility (e.g. port) and means of transport to location and any other identifier (e.g. FOB or transfer of ownership))  – 40 characters limit
SBP-00-00-01	Factory Gate, BIOENA S.A.S. 10.390869, -74.111437. From this site, the wood pellets will be transported to the COREMAR port.
SBP-00-00-02	COREMAR Port. 10.977973, -74.753245. Corredor de Carga Palermo, Sitionuevo, Magdalena.

Please add the number of SDIs as required.

## 4.1 General transport data

Please complete a column for each SDI.

If the SDIs do not match the format of the table below please change the orientation of the page or transposition the table.

	DATA	SBP-00-00-01	SBP-00-00-02
Transport	SDI starting point	Factory Gate	Factory Gate
leg 1	Distance (km)		131
	Transported to?	COREMAR Port	COREMAR Port
	Mode of transport		Road
	Transport powered by?		Fossil diesel oil
	Transport capacity (tonnes)		34
	Actual fuel use if known (litres)		55.11
	Backhaul if known		
Transport	Starting location		
leg 2	Distance (km)		
(if	Transported to?		
needed)	Mode of transport		
	Transport powered by?		
	Transport capacity		

	(tonnes)		
	Actual fuel use if known (litres)		
	Backhaul if known		
Transport	Starting location		
leg 3	Distance (km)		
(if	Transported to?		
needed)	Mode of transport		
	Transport powered by?		
	Transport capacity (tonnes)		
	Actual fuel use if known (litres)		
	Backhaul if known		
	Scope end point		

### 4.2 Storage and handling of biomass

Please indicate address of off-site storage, handling or trans-shipment facility,

Not applicable	
Storage site 1	
Physical address	Km 54,1 Ruta del Sol 3 Bosconia - Santa Marta. Desviación vía a Monterrubio Km 1. Algarrobo, Magdalena, Colombia.
Description of activity occurring at this location	Bioena operates two pellet storage hoppers located at the end of the production line. These hoppers facilitate the efficient loading of vehicles responsible for transporting the pellets to the designated storage location at the port. This configuration optimizes the transition from production to logistics, ensuring consistent pellet quality and streamlining storage and transport workflows.
Maximum time of storage	5 days
Relevant contact person	Dario Ramirez
Telephone / Fax company office	+57 3107380965

## Please indicate energy requirements for storage and handling of biomass, where information is available.

	Value	Unit
Electricity	0.0088	kWh/t

Storage site 2	
Physical address	Corredor de Carga Palermo, Sitionuevo, Magdalena.
Description of activity occurring at this location	Vehicles arriving from the plant automatically unload by dumping their cargo in the designated area of the port warehouse. A front-end loader then transfers the cargo to an electrically powered stacker for efficient stacking. For ship loading, the front-end loader fills dump trucks, which transport the pellets to the ship. There, the ship's cranes are utilized to complete the loading process efficiently and securely.
Maximum time of storage	3 months
Relevant contact person	Carlos Varon
Telephone / Fax company office	+57 3102177106

Value

Unit

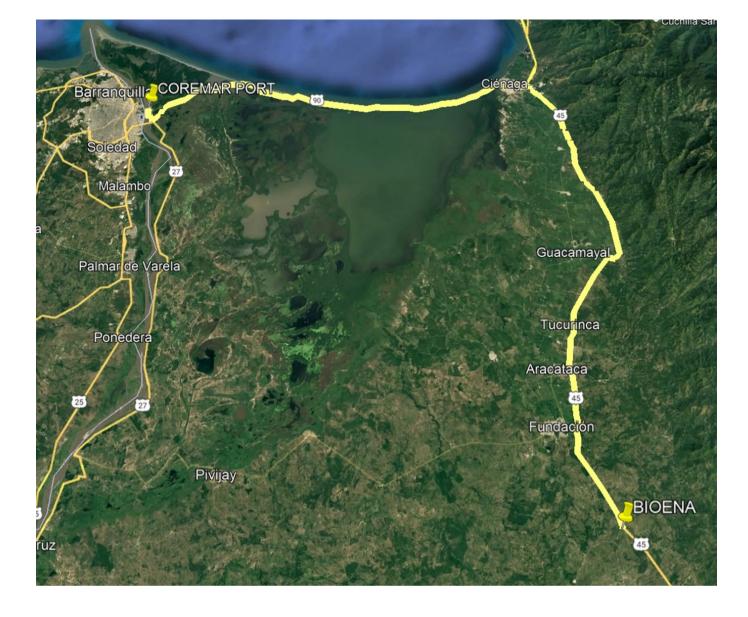
Please indicate energy requirements for storage and handling of biomass, where information is available.

	Value	Unit
Electricity	0,5256	kWh/t
Fossil fuels	Value	Unit
Diesel oil	1,077	litres/t

## 4.3 Regional map demonstrating biomass producer and location of SDIs

(One map may be used for multiple SDIs where appropriate)

**Fossil fuels** 



## 4.4 Other relevant information, including justifications for data provided and methodologies used

Bioena has confirmed that the Port of Coremar, located in the city of Palermo, municipality of Sitionuevo, Department of Magdalena, will be the departure point for the wood pellets. A storage agreement has been signed for this purpose. The specific details for handling the pellets at the port are currently being defined.

### 4.5 Validation by CB

The CB must review the information delivered above and verify the data focusing on two parameters that play an important role in the CO2 emissions:

- - type of vehicles used for transport (visual check of vehicles / transport facilities on site)
- - destination and distances (to be checked on a map)

The CB should comment on the validation of the transport scheme as necessary.

Transport distances and rutes have been verified using google maps

## 5 Dynamic Batch Sustainability Data (DBSD)

Record all biomass with DBSD during the reporting period that have been shared to the DTS (as defined in Instruction Document 5E clause 5.2).

Biomass Category	Metric tonnes	

## **5.1** Validation by the CB

**(CB)**What evidence / explanation was made available to the auditor. Has corresponding DTS data been verified?

## **6** Key dates and representatives

This document is (select option)	New SAR with updated reporting period
Summary of changes if SAR was updated	

## **6.1** Certificate Holder

Name of the representative of the BP certifying	Ricardo Benítez
that this template has been	
filled in to the best of his ability	

## **6.2** Certification Body

Date 1 (=date of closure of the last audit)	07-November-2024
Name of the auditor certifying that the data gathered in this form has been checked and validated in compliance with the last version of SBP Standard #5 and SBP certification procedures.	Pilar Gorría
Name of the technical reviewer having checked this document	Mikhail Rai
Name of the certification decision maker	Mikhail Rai

## $\textbf{6.3} \quad \textbf{SAR validation and upload in the DTS}$

Date 2 (= date upload SAR in the DTS = SAR reference)	
Please indicate corresponding <b>validity date</b> on page 1.  Keep validity date as in previous SAR version if it is an updated version without change of the reporting period.	07-February-2026
Name of the SBP officer in charge of validation	

### **Appendix 1: Photographs/illustrations**

This shall include photographs/illustration/pictures of at least the following:

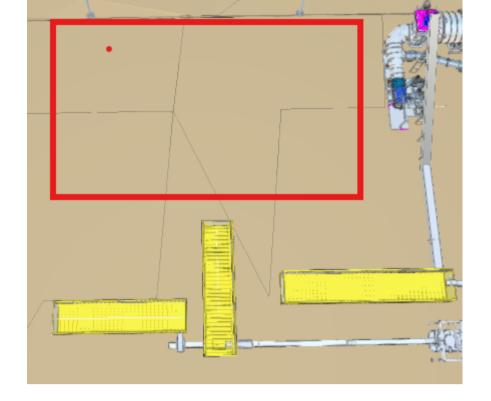
- - Feedstock storage
- - Overview of biomass manufacturing plant
- - Dryer(s) (if any)
- - Wood chippers (green island, dry island)
- - Press(es) if wood pellets
- - Biomass storage and handling

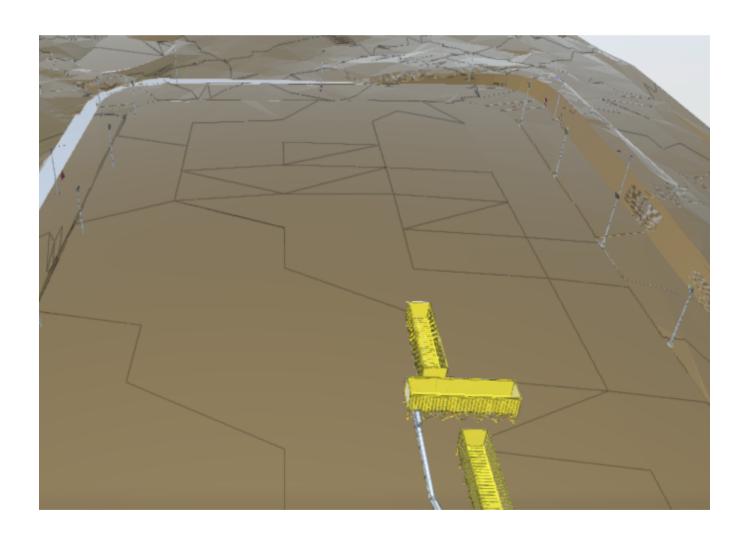
A ground plan of the facilities and / or a flowchart shall also be included if available.

Please add dates when photographs were taken

BIOENA is currently under construction and is scheduled for completion in the first quarter of 2025. Enclosured equipment.

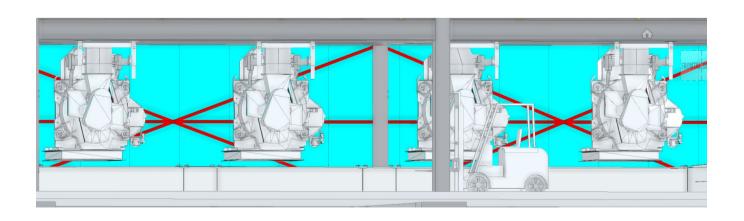








# bioena



## **Appendix 2: Production process**

Describe the on-site biomass production process, focusing on any variation from best practices, and including a <u>detailed</u> description of the processes undergone by feedstock.

Feedstock delivery	Weighbridge or other volume measuring	applicable to all feedstock groups applicable only to feedstock group nr not applicable
	Moisture monitoring	applicable to all feedstock groups applicable only to feedstock group nr not applicable
	Unloading	truck tipping applicable to feedstock group nr
		live bottom truck applicable to feedstock group nr
		moving floor applicable to feedstock group nr
		grab/front end loader/crane applicable to feedstock group nr 1-2-3-4
		hopper/conveyor belt applicable to feedstock group nr
		blowpipe applicable to feedstock group nr
		other (specify) applicable to feedstock group nr
Feedstock storage		wood yard applicable to feedstock group nr 1-2-3-4
		warehouse applicable to feedstock group nr
		silo applicable to feedstock group nr
		other (specify) applicable to feedstock group nr

		no storage applicable to feedstock group nr				
Feedstock handling		rolling stock				
		conveyor	conveyor			
		blowpipe	blowpipe			
		other (sp	ecify)			
Feedstock preparation	Debarking	applicable to all feedstock groups  applicable only to feedstock group nr  not applicable  applicable to all feedstock groups  applicable only to feedstock groups  not applicable  not applicable		energy source electricity diesel other(specify)		
	Chipping			energy source electricity diesel other(specify) 131787		
	Drying	applicable to all feedstock groups  applicable only to feedstock group nr not applicable	drum dryer (number:) belt dryer (number:) other(specify) hot air hot water steam	energy source(s)  biomass burner  boiler  fossil fuel  burner/boiler  (specify fuel)  own biomass  CHP  third party  fossil fuel CHP  (specify fuel)  own fossil fuel  CHP (specify fuel)  third party  biomass CHP  steam from  biomass CHP  other(specify)  7157		
Sizing (hammer mill) Before dryer (green)			le to all feedstock ground le only to feedstock gr	=		

	not applicable	
		ble to all feedstock groups ble only to feedstock group nr licable
Pelletising	number of presses 4	design capacity of each press 4,4 tonnes/hour
Product handling	□ rolling stock , □ conveyor belt , □ blowpipe , □ forklift , □ other (specify)	
Product storage	warehouse silo open air (woodchips or black pellets) dome (for pellets) other (specify) no storage	maximum storage capacity: 30000 tonnes

In this appendix, please concentrate on elements that might influence the calculation of the net fossil CO2 emissions (anything which will contribute >1% of the total Carbon emissions).

### Other relevant information to the biomass production process not captured anywhere else

A 2,000-ton silo at the plant will be used to load trucks transporting the finished product to the port warehouse, where it will be stored before being loaded onto the ship for delivery.