



Pellet-Energy Ukraine

2022

Pellet-Energy Plant in brief

- ✓ Total area: up to 2ha in the urban settlement of Emilchyno, 230 km from Kyiv
- ✓ Production site includes several buildings:
- ✓ Mainline production (1080 m²)
- ✓ Finished products storage area (1500 m²)
- ✓ Administrative office and amenity rooms (2 storied building)
- ✓ Two production lines: Stoza based mill (capacity 15k tons per year) and production line based on Kahl granulator (capacity 35k tons per year)

- ✓ The company's products meet the quality standards of EN Plus A1 and A2
- ✓ The company has its own laboratory and co-operation with one of the largest European laboratories, TLR, EuroFines and ASG which regularly tests products (ASG Germany)



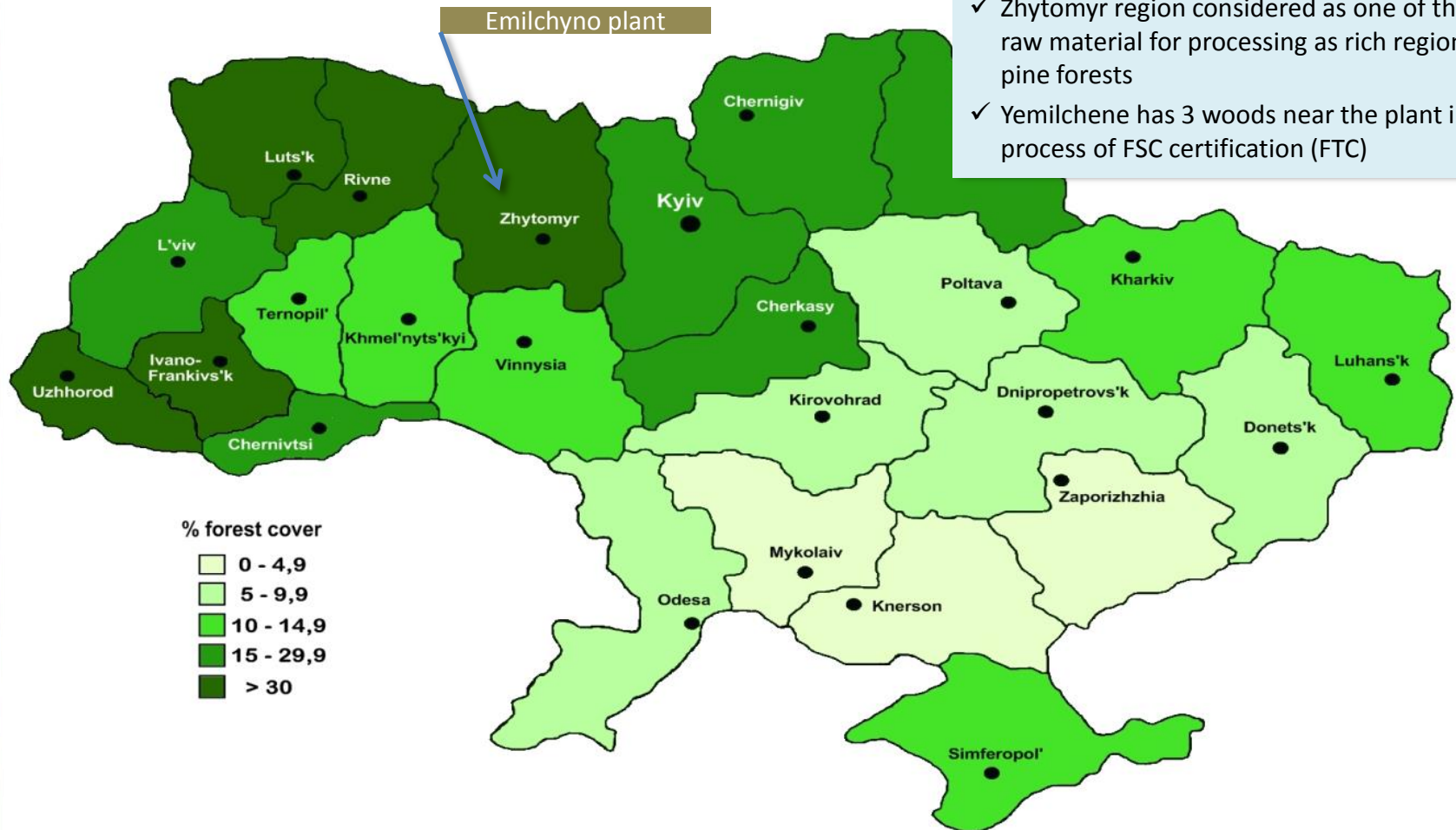
Photo of our Plant:



REGIONAL POSITION AND RAW SUPPLY

Pellet Energy has the best location:

- ✓ Zhytomyr region considered as one of the best raw material for processing as rich region of pine forests
- ✓ Yemilchene has 3 woods near the plant in the process of FSC certification (FTC)



Certification



CERTIFICATE

ENplus ID-No.: UA 004

Control Union Certifications Germany GmbH
Dorotheastr. 30, 10318 Berlin, Germany

hereby confirms that

LLC Pellet-Energy Ukraine
Pivnichno-Syretska 1-3, 4136 Kiev, Ukraine
operational address:
Soborna Str. 2, 11201 Emilchino, Ukraine

meets all requirements according to the program of ENplus for:

wood pellet production A1

The certificate holder is a producer and shall be entitled to produce ENplus certified wood pellets. The company is certified by the certification body Control Union Certifications Germany GmbH as an independent third party.

This certificate authorizes the use of the ENplus logo in accordance with the provisions of the valid version of the ENplus handbook.

This certificate is

valid from: 15.09.2022

valid till: 14.09.2025

Berlin, 31.08.2022

Place, Date

CUC Germany GmbH
Dorotheastr. 30, 10318 Berlin
Stamp, Signature
Tel: +49 (0) 30 509 69 88 - 0
Fax: +49 (0) 30 509 69 88 - 88

This certificate is property of the certification body and must be returned upon request.
The audit is based on version 3.0 of the handbook by the European Pellet Council.



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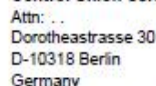
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Handelsweg 70
2988 DB Ridderkerk
The Netherlands
T. +31 (0)10-28 23 292
e-mail: info@bbr.nl



Reportnr.	: 1661822 version 1		
Sample Arrival Date	: 23-Aug-2022 10:12	Sampling Date	: 08-Jun-2022
ReportDate Version	: 30-Aug-2022 22:12	SampleSize (kg)	: 15
Packing	: Plastic, ambient		

Sample Information *

Disponent Number : PRJ 843034
Sealed / Seal Code : Yes /
Disp. Remark : Client: Cont

Product specification : Wood Pellets
Reference : 843034-062022-A1

* Information supplied by customer (TLR takes no responsibility for this information)

Composition Determination

Parameter	Result (as received)	Result (on dry)	Result (as det)	Result (dry ash free)			
Total Moisture	4,98				%		Q
Moisture Aindry			10,20		%		Q
Ash	0,27	0,28	0,25		%		Q
Volatile matter incl. moisture			86,94		%		Q
Volatile matter	81,20	85,46	76,74	85,70	%		
Fixed Carbon	13,55	14,26			%		
Gross Calorific Value	4663,3	4907,7	4407,1	4921,6	kcal/kg		Q
	19,52	20,55	18,45	20,61	GJ/mt		
Nett Calorific Value (cV)	8393,9	8833,8	7932,9	8859,9	B.T.U.'s/Lb		Q
	4358,5				kcal/kg		
	18,25				GJ/mt		
	7845,4				B.T.U.'s/Lb		
	5,1				kWh/kg		
Nett Calorific Value (cP)	18,17				GJ/mt		Q
Emissionfactor CO2 (cV)	98,84				t CO2/TJ		
Emissionfactor CO2 (cP)	99,34				t CO2/TJ		
Hydrogen	5,63	5,92	6,46	5,94	%		Q
Carbon	49,23	51,81	46,53	51,96	%		Q
Nitrogen	0,16	0,17	0,15	0,17	%		Q
S. (Sulfur)	< 0,010	< 0,010	< 0,010	< 0,010	%		Q
Oxygen (by difference)				41,930	%		

Preparation

Common

Parameter	Result (as received)	Result (on dry)	Result (as def)		
Preparation sample	Biomass preparation in accordance with NEN EN 14780 and NEN EN 15443			Q	R

Composition Determination

Common

Parameter	Result (as received)	Result (on dry)	Result (as det)
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Packing	: Plastic, ambient

Sampling Date : 08-Jun-2022
Sample size (kg) : 15

AFT. (oxid) DT	1490	gr. C	R
Diameter pellets (n=25)	6,1	mm	Q R
Length of pellets	10,9	mm	Q R
Sieve < 3,15 mm.	0,2	%	

Metal and other elements

Parameter	Result (as received)	Result (on dry)	Result (as det)			
Cd (Cadmium)	0,111	0,117	0,105	mg/kg	Q	R
Pb (Lead)	0,06	0,06	0,06	mg/kg	Q	R
As (Arsenic)	< 0,040	< 0,040	< 0,040	mg/kg	Q	R
Hg (Mercury)	< 0,020	< 0,020	< 0,020	mg/kg	Q	R
Ni (Nickel)	< 3,0	< 3,0	< 3,0	mg/kg	Q	R
Cl (Chloride)	< 0,005	< 0,005	< 0,005	%	Q	R
Cr (Chromium)	< 5,0	< 5,0	< 5,0	mg/kg		R
Cu (Copper)	< 5,0	< 5,0	< 5,0	mg/kg		R
Zn (Zinc)	9,2	9,7	8,7	mg/kg		R

Other Analysis

Common

Parameter	Result (as received)	Result (on dry)	Result (as del)			
Mechanical Durability	99,1			%	Q	R
Bulk density	680			kg/m ³	Q	R

Q - Analyse ISO 17025 accredited by RvA (JLAC)
R - Carried out by TLR International Laboratories, location Ridderkerk
Q - Subsampled

Demandé 23-Aug-2022 by Control Union Certifications Germany GmbH
Analyses according to annex
Drs. Ing. H. Janssens Director TLR International Laboratories

Product description



Wood pellets ENPlus A1:
100% Pine
Diameter 6
Average length 15 mm
Average Humidity 5 - 7%
Average Ash up to 0.65
Energy 4500 Kkal / kg
Mechanical Durability 98
Bulk density 650 kg/m³

Wood pellets ENPlus A2:
100% Pine
Diameter 6 or 8 mm
Average length 15 mm
Average Humidity 5- 7%
Average Ash up to 0.75%
Energy 4500 Kkal / kg
Mechanical Durability 97.5
Bulk density 650 kg/m³



**Wood pellets ENPlus A1
for consumers:**
15 kilos small plastic bags

**Wood pellets ENPlus A2
for consumers:**
15 kilos small plastic bags



**Wood pellets A2 for
SMB:**
Big Bags of 1000 kilos



Shipping terms:

- We are able to supply the goods on the bases FCA, DAP (truck) , CFR (Container) to any places in EU as per request.
- 90% of our sales is export.
- We have one of the best logistic prices and truck availability based on long term partnerships with

Small 15 kg plastic bag:

- 1 truck (21,90 mt netto weight) = 20 pallets on 73 bags weighing 15 kg (size of pallets 1*1,2m)
- 1 truck (21,78 mt netto weight) = 22 pallets on 66 bags weighing 15 kg (size of pallets 1*1,2m), (size of pallets 1*1,2m)
- 1 container 40'F (23,940 mt netto weight) = 21 pallets on 76 bags weighing 15 kg (size of pallets 1*1,2m),
- 1 container 40'F (24,150 mt netto weight) = 21 bags weighing 1150 kg, (size of pallets 1*1,2m)

1000 kg Big Bag

1000 kg Big Bag - 22-23 Big Bags per truck (without pallets)



Availability

Wood pellets ENPlus A1

Diameter of 6 mm (+/- 1)

Average length 15 mm

Humidity up to 7 %

Ash up to 0.64 %

Caloric value - app. 19 KJ/kg

Wood pellets ENPlus A2

Diameter of 6 mm or 8 mm (+/- 1)

8mm based on order (one day 22 tons)

Average length 15 mm

Humidity up to 7 %

Ash up to 0.75 %

Caloric value - app. 17.5 KJ/kg



Available free quantity per month
+/- 500 tons

Payment terms TT in advance

Packaging:

- polypropylene Big Bag of 1000 kg
- polypropylene 15 kg bag
transparent or with PE logo

Available free quantity per month
+/- 1000 tons (2500 max)

Payment terms TT in advance

Packaging:

- polypropylene Big Bag of 1000 kg
- polypropylene 15 kg bag
transparent or with PE logo



Standard shipping terms:

EXW Emelchino

FCA Emelchino

DAP (your destination)

Sales Department

We will be glad to have you as our partner!



Maria Kachula

Sales and purchasing

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Sales

Sales department

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Thank you for cooperation!