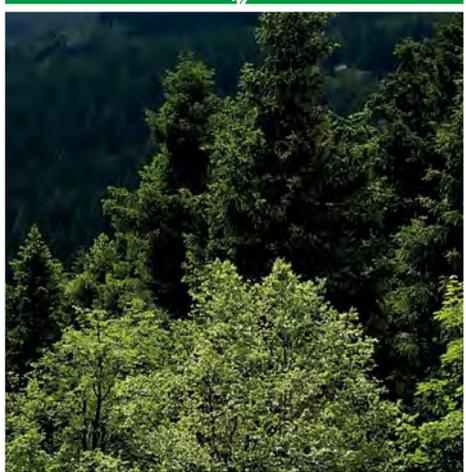
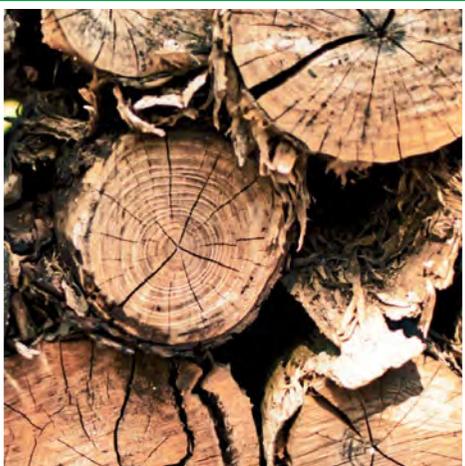


BIOMASA[®]

PARTNER GROUP

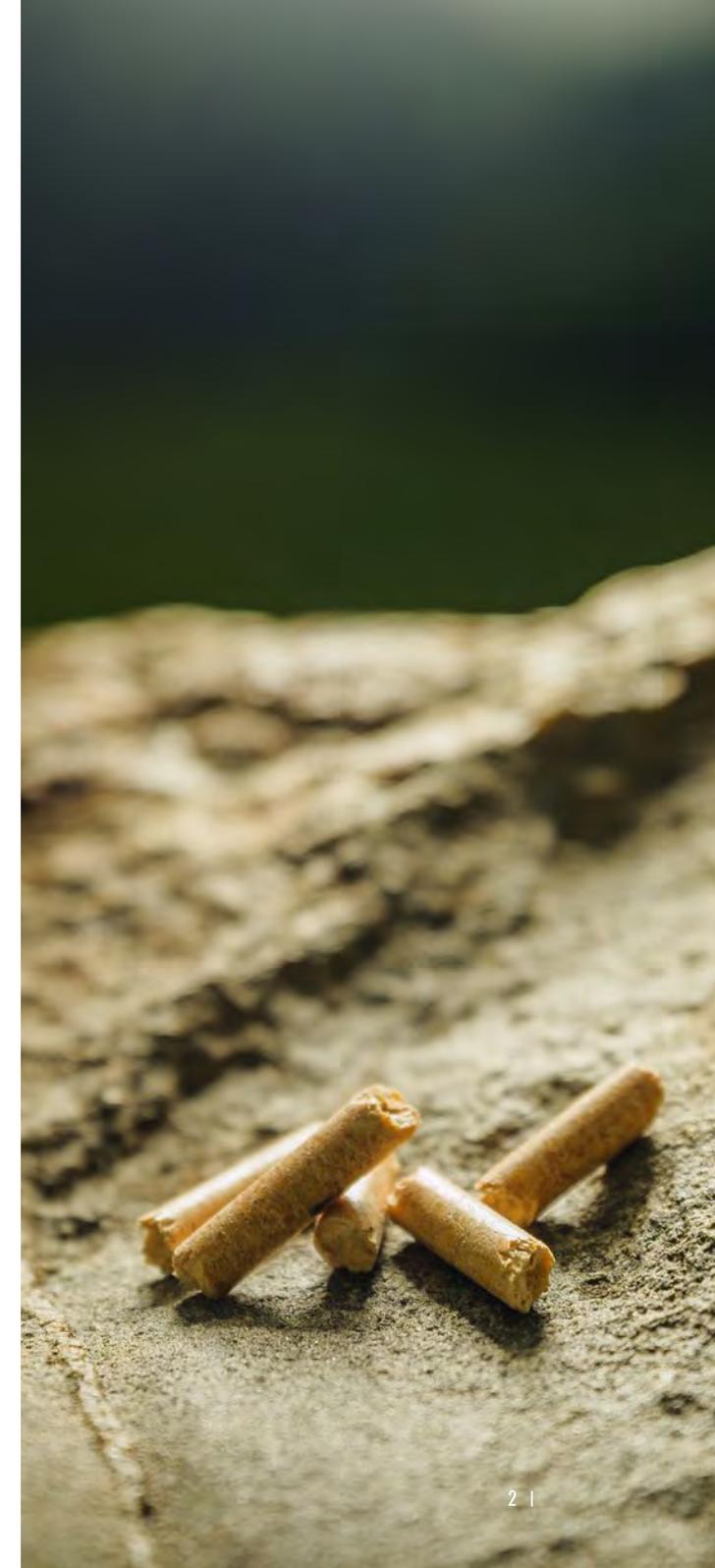


European leader in certified wood pellets, straw pellets used for bedding and heating purposes, biomass and sawn timber

2023/2024 CATALOGUE

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Let's get to know each other better

We're a leading producer and preferred supplier of ecological, efficient and En Plus A1 PL 027 certified wood pellets, straw pellets used for heating purposes, biogas and bedding pellets, wood briquettes, raw material for pellet production, wood biomass for energy purposes and pine sawn timber used to manufacture furniture, windows and other wooden products. We have production facilities in Runowo Pomorskie, Żąbkowice Śląskie and Chociwel, Poland. Our products are supplied to both the Polish market and foreign markets throughout Europe. We provide comprehensive services in the field of transport, forwarding and logistics.

Biomasa Group in numbers:

+ 200 SKILLED WORKERS

+ 11 YEARS OF EXPERIENCE

+ 4 LOCATIONS IN POLAND

+ 20,000 DELIVERIES ANNUALLY

+ 100,000 TONNES OF PELLETS SOLD ANNUALLY

+ 160,000 TONNES OF BIOMASS SOLD ANNUALLY

+ 150,000 m³ OF TIMBER PROCESSED ANNUALLY



Biomasa Group



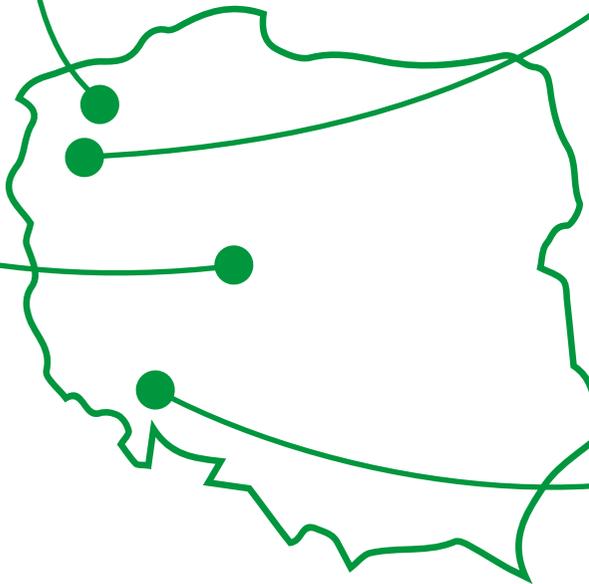
Headquarters – Modła Królewska



Wood pellet production
– Runowo Pomorskie



Saw mill – Chociwel



Bedding pellet production
– Zabkowice Śląskie

History

We started our business as a supplier of wood biomass, aimed mainly at power sector customers, and today we can proudly say that we've been a leader in the production of certified wood pellets and straw pellets, such as litter and power pellets, biomass, as well as lumber, since March 2021.

Our history...

In 2012, our company built a network of partner suppliers of raw materials for the production of wood pellets, as well as a network of partner producers of wood pellets.

In July 2013, we launched the export of wood pellets, starting by launching products on the largest market in Europe – Italy.

In 2014, we started to introduce products to the German, Belgian and Danish markets, gradually strengthening our position as a key supplier to existing partners and systematically acquiring new customers.

In the same year, we also broadened our export offer to include wood briquettes.

In September 2015, we started to build a distribution network for wood pellets on the Polish market, and in October we created the Transport, Shipping and Logistics (TSL) department, which strengthened the comprehensiveness of the services offered to our customers.

In April 2017, we acquired a wood pellet production facility in Runowo Pomorskie, where we built (independently of our own wood pellet production) a modern collection and packaging facility for pellets from external production.

In 2018, we became the owner of a production plant in Zabkowice Śląskie, thus introducing a new range to our offer: straw pellets.

The year 2019 primarily saw the launch of a new product – ONDRY bedding pellets. In the same year, we also started supplying biomass and straw pellets to major power companies.

In March 2021, we acquired the sawmill in Chociwel from IKEA INDUSTRY, expanding our product portfolio to include sawn timber.

In June 2021, we started the process of preparing a climate-neutral strategy with the main objectives of successively reducing our carbon footprint and increasing the share of green products in our portfolio.

We're a company with a long history, but we're driven by thinking about the future, which is why we set ambitious goals that we'll achieve over the coming years.

Mission and objectives

Mission

Continuously contributing to reducing negative climate change and creating a safe and comfortable environment

Objectives:

- 100% of own electricity and heat produced from RES
- 100% of raw material for production from own sawmills
- 120,000-130,000 tonnes of wood pellets sold annually
- 30,000-40,000 tonnes of straw pellets sold annually
- 200,000 m³ of timber processed annually



Strengths



Wide range of products



Modern production technology



Experienced and competent team



Comprehensive supply chain



Quality backed by certificates



Clear rules of cooperation

People

Our employees are the greatest asset of our company!



TEAM OF SPECIALISTS

Biomasa Partner Group is a team of competent and qualified professionals focused on customer satisfaction.



KNOWLEDGE BACKED BY EXPERIENCE

Many of our employees have been with us for many years. We try to draw on their extensive experience and expertise.



PASSION AND COMMITMENT

Our company is made up of people with passion, and that's why in addition to substantive skills, we also focus on commitment, creativity and cooperation.

Atmosphere



The main thing that motivates us to fulfil our duties is a good atmosphere. We spend a large part of our lives at work, which is why we want our employees to feel as good as possible when at work. An atmosphere of mutual trust and respect encourages people to work more eagerly and with more energy, which in turn makes teamwork more efficient.

Despite the fact that we operate at four different locations every day that are located a few hundred kilometres from one another, daily cooperation, mutual support, a big smile and empathy help us reach newly set objectives.



CSR

We act globally, but support locally



Biomasa Partner Group always puts care about the local community at the forefront. We believe that every initiative that helps improve the quality of life in our surroundings is worth supporting. This is why our company is actively involved in local initiatives and charity activities. We are proud that in recent years we were able to support many projects, such as fire-fighting knowledge competitions, "Noble Pack", supporting animal shelters, and outdoor events integrating the local community.



Ecology

In harmony with nature

In 2012 we defined a mission for our company based on which we are building our development strategy: **“Continuously influencing the reduction of negative climate change and the creation of a safe and comfortable environment”**. Just nine years later – in 2021 – we won the “Renewable Energy Leader” award.

“In harmony with nature” is a philosophy that guides us every day. It’s the motto of daily collaboration of all Biomass Group staff.



Environmentally friendly products

Our products come from 100% responsibly managed forests. Our customers can be sure that the requirements of the FSC® system are respected at our company.



As little plastic as possible

We do not drink water from plastic bottles or canisters. We use biodegradable mugs and drink tea and coffee in ceramic cups.



Protecting trees

We print all marketing materials on special recycled paper. We only print if it’s necessary, and always on both sides of the paper.



Saving energy

As of 1 January 2022, all the electricity used at all our production sites comes from RES.



Saving water

We wash dishes in dishwashers, which are only switched on when fully loaded. We use the water in glass jugs left over from meetings to water flowers.

Certification

The reliability and professionalism of our company is demonstrated by both the trust of our long-term customers and the certificates we have obtained.

In 2015, we were certified for wood pellets with EN PLUS A1 PL303, and in 2016 we obtained FSC® (Forest Stewardship Council®) certification for the raw material supplied for pellet production.

In 2017, we expanded the list of certificates we hold for wood pellets to include the new EN PLUS A1 PL027.

In the same year, we obtained the TCF (Trans.eu Certified Forwarder) certificate, which confirms our reliability in the field of logistics.

The year 2019 marked further steps confirming our development in the area of competence and quality of services provided. This was the year we received two prestigious certificates: FSC® for manufactured wood pellets and TCF Elite awarded to companies providing logistics services of the highest standard.

In 2021, the system introduced at Biomasa Partner Group was registered as meeting the requirements of the KZR INiG standard (Sustainability Criteria of the Oil and Gas Institute). The certificate obtained confirms that our company meets all the provisions and essential requirements regarding sustainability criteria in the production of biofuels, bio-liquids and fuels from biomass.



Services



SAWN TIMBER



WOOD BIOMASS



WOOD PELLET



RUF BRIQUETTE



WOODEN PALLETS



BEDDING PELLETS



ENERGY PELLETS



PELLETS FOR BIOGAS PLANTS



BIOMASA TSL



Saw mill in Chociwel

Wood has no secrets from us!

At the saw mill in Chociwel, we process approximately 150,000 m³ of wood per year, which places us among the top saw mills in Poland. By sourcing our raw and other materials sustainably and using modern technologies, we create products that are not only high quality, but also environmentally friendly.

What distinguishes us from other saw mills?

- experience and solid foundations for future growth,
- sourcing wood while caring for the environment,
- the most-efficient quality control methods,
- correct wood storage and drying (seasoning) methods,
- chamber-type wood dryers,
- long-term cooperation with the biggest furniture manufacturer in the world,
- comprehensive logistics facilities.

Wood has no secrets from us!

- we cut 150,000 m³ of wood per year,
- we produce 80,000 m³ of lumber per year,
- over 20 vehicles deliver wood to us every day,
- we cooperate with over 40 partners.

Sawn timber

We produce the highest-quality pine lumber that can be used to make furniture, windows and other wooden products. During the production, we observe the requirements and rules of the FSC® certificate, thanks to which our products meet the highest quality standards of both domestic and foreign customers. We offer lumber with different parameters and dimensions (main, side and uncut lumber) – both wet and dry.

Wood products from a reliable source

We are no strangers when it comes to care for the environment, and this is why we produce our lumber in accordance with the requirements and rules of the FSC® certificate. **Selecting our products, customers can be sure that we use wood only from verified sources in their production.** This wood was sourced legally and is not from naturally valuable areas.



CENTER PART TIMBER

Thickness: 50-140 mm

Width: 70-150 mm

Length: 2.0-4.5 m

Moisture content: >8%

Packaging: Packages sorted by size and quality



SIDE BOARD TIMBER

Thickness: 19-25 mm

Width: 70-150 mm

Length: 2.0-4.5 m

Moisture content: >8%

Packaging: Packages sorted by size and quality



UNEDGED TIMBER

Thickness: 25-100 mm

Width: < 350 cm

Length: 2.4-3.0 m

Moisture content: wet

Packaging: Packages sorted by size and quality

Wood biomass

Wood biomass is one of the key sources of renewable energy, and offers an alternative to fossil fuels. The use of wood biomass as an energy source contributes to limiting greenhouse gas emissions and improves air quality.

We offer saw dust/shavings, wood chips for paper production, defibrated wood chips, and bark. All of these elements are obtained during the production of wood products at saw mills or at other site that process wood.





Sawdust/shavings

This is fine fraction that's a by-product of sawing (sawdust), whittling, turning (shavings), etc. It accounts for approximately 13% of the wood processed in sawmills. Sawdust is ideal for the production of pellets (A1 and A2 quality) and briquettes. It can be classified, depending on the moisture parameters, into wet and dry. The moisture content of sawdust varies: 8-15% for dry sawdust and 16-60% for wet sawdust, and the ash content is between 0.3 and 0.6% of dry matter.



Paper chips

They are generally created in highly mechanised and modern wood processing plants where wood is debarked. As paper chips are a top-quality raw material, they can be successfully used in pulp and paper mills, board mills and as a raw material for the production of solid fuels (A1 quality pellets, briquettes). They are characterised by a high moisture content of 50-55%, a well-defined fraction of up to 45 mm, high purity (they contain no bark), and the ash content is between 0.3 and 0.6% of dry matter.



Defibration chips

These are produced in wood processing plants where wood is not debarked. Defibrillated wood-chips are an excellent fuel for boilers, and are also used in the production of wood-based panels and as a raw material for solid fuels (A2 quality pellets, briquettes). The calorific value of wood chips is 7-14 MJ/kg (average 10 MJ/kg), the moisture content is 20-60% and the ash content is 0.6-1.5% of dry matter.



Bark

One of the elements resulting from the processing of roundwood is bark – its naturally occurring outer layer. Depending on the size of the fraction produced during the debarking process, bark is used, among other things, in gardening (both the coarsest fraction and the finest fraction – so-called waste bark) and for energy purposes (the finest fraction). The ash content is approximately 2% of dry matter.



Wood pellet production – Runowo Pomorskie

Thanks to the wood pellet production site in Runowo Pomorskie, which we took over in 2017 and which has tripled its production capacity after our upgrades, we're in the leading group of manufacturers and preferred suppliers of wood pellets.

The production process is subject to thorough checks, starting from the sourcing of raw materials, through granulation, to packing. This means that the Excellent and Premium Selection brand pellets are of the highest, repeatable quality, confirmed by laboratory checks and tests. We deliver our products to the Polish, Danish, German, Italian, Belgian, Dutch and French markets for the district heating and power sectors.

What makes us stand out:

- certified goods – A1, EN+
- the highest quality of raw materials obtained from our own saw mill
- the product we produce is environmentally friendly
- an extensive dispatch and logistics base
- excellent control over individual production processes
- well-organised and qualified staff

In Q4 2023, we plan the conclusion of the investment project involving the construction of a modern factory, which includes a combined power plant fired with biomass, a low temperature drying station, as well as a production and pellet confectioning hall. The wood pellet production site at Runowo Pomorskie will operate in accordance with the highest environmental and safety standards effective within the European Union. We took care to make sure that our production is as sustainable and environmentally friendly as possible.



Wood pellets

As a leading manufacturer and preferred supplier of environmentally friendly, efficient En Plus A1 PL 027 certified wood pellets, our company offers several types of pellets.

Thanks to our diverse range, you can choose Excellent Selection and Premium Selection pellets, which are suited to the needs of more-demanding customers.

The wood pellets we offer have a very good calorific value. In the case of the Premium and Excellent options, you can also count on a small amount of ash produced during combustion, which allows convenient use of the pellet cooker.

Our wood pellets are fully ecological – they don't contain harmful substances, don't emit odours that are offensive and unpleasant for humans, and the ash produced after the pellets are burnt can be used as fertiliser for the lawn or garden. It's a product with the so-called "zero CO₂ emissions" – the amount of CO₂ produced when the pellets are burnt is equal to the amount of carbon dioxide that the growing trees take up during the photosynthesis process.



Selected, clean,
dried sawdust from
coniferous trees



Excellent Selection Pellets

Certified Excellent Selection Pellets meet the requirements of even the most-demanding customers. Specially selected dry conifer sawdust is used for production. Excellent Pellets are distinguished by a very high calorific value and a negligible amount of ash.

Strengths:

-  Very high quality – specially selected dry conifer sawdust is used for production.
-  High calorific value – over 18.5 MJ/kg.
-  The amount of ash that remains after burning is negligible – less than 3 kg from each tonne burnt.
-  Do not contain harmful substances and do not emit offensive or unpleasant smells.
-  Excellent Selection Pellets are very light in colour.
-  Clean to use – they don't soil rooms like other solid fuels, such as coal, e.g. eco-pea coal, coke or fine coal.
-  Their qualities have been appreciated not only by many users of pellet cookers in Poland and Europe, but also by boiler manufacturers themselves.

Certificates held:



Excellent Selection Pellets

Technical parameters:

- Total moisture content < 10%
- Ash content $\leq 0.3\%$
- Calorific value > 18.5 MJ/kg
- Bulk density > 650 kg/m³
- Fine fraction content (dust content in the bag) $\leq 0.5\%$
- Mechanical strength > 98.5%

Dimensions:

- Diameter 6 mm, 8 mm

Packaging:

- 15 kg bag
- 1,000 kg Big Bag
- Bulk

Delivery

- Bulk transport up to 24 tonnes:
 - Tanker
 - Hopper
 - Moving floor
 - Tippers
- Transport of pellets on a pallet:
 - Tarpaulin
 - Moving floor



Premium Selection Pellets

Technical parameters:

- Total moisture content < 10%
- Ash content 0.5-0.6%
- Calorific value > 18.3 MJ/kg
- Bulk density > 650 kg/m³
- Fine fraction content (dust content in the bag) ≤ 0.5%
- Mechanical strength > 98.5%

Dimensions:

- Diameter: 6 mm, 8 mm

Packaging:

- 15 kg bag
- 1,000 kg Big Bag
- Bulk

Delivery

- Bulk transport up to 24 tonnes:
 - Tanker
 - Hopper
 - Moving floor
 - Tippers
- Transport of pellets on a pallet:
 - Tarpaulin
 - Moving floor



Manufactured from wood shavings, sawdust and wood chips (deciduous and coniferous trees)



RUF wood briquette

RUF type wood briquette is a fully ecological solid fuel that can be used in fireplaces, cookers and boilers, ensuring efficient heating. RUF briquette has been created from a mixture of sawdust from deciduous and coniferous trees. No binding substances have been used, making it an environmentally friendly source of heat in buildings.

Strengths:

-  Fully ecological solid fuel for fireplaces, tiled cookers, multi-fuel boilers and other solid fuel heating appliances.
-  Much better performance than classic wood used for heating homes.
-  Easy to light and smokeless to burn, doesn't tar chimney flues.
-  Easy and practical to use.
-  The small amount of ash that remains after burning the briquette can be used as fertiliser for plants.

RUF wood briquette

Technical parameters:

- Calorific value > 19MJ/kg
- Total moisture content < 6.3%
- Ash content < 0.7%

Dimensions:

- The dimensions of the cube are approximately 150/65/95 [mm]

Packaging:

- 96 packages with a total weight of 960 kg stacked on a pallet

Delivery:

- Bulk packaging – tarpaulin



Wooden pallets

We specialise in the production of various types of wood products, and this is we the products we offer had to include wooden pallets. We offer the highest-quality industrial pallets with standard and non-standard dimensions.

We service various logistics spaces:



Individual projects: we're able to produce "tailored" pallets to meet the needs of our customers. Irrespective of the size, shape or weight of the goods, we deliver pallets meeting specific requirements. Our pallets are the highest-quality product that not only ideally meets the requirements of even the most-demanding customers, but will also serve our customers for a long time – the solid execution allows repeated use.



The highest-quality materials: our pallets are made only of high-quality, pre-selected wood, which not only guarantees aesthetic appearance, but also excellent reliability during transport and storage. Our customers can be sure that their products are safe and properly secured.



Professionalism and timeliness: contrary to euro-pallets, industrial pallets have no standard sizes, and this is why we produce them in various forms and tailored to individual needs. We emphasise a professional approach and timely execution. Irrespective of the size, shape, capacity or quantity of the pallets or other special requirements, we can fulfil any order.



Delivery to your door: we not only create non-standard pallets, but also deliver them to the indicated address. We ensure efficient and timely delivery to facilitate and make the entire process as short as possible, thanks to which the wood pallets reach the customer quickly and intact.



Sustainable production: we not only strive for customer satisfaction with the purchased products, but also care about the well-being of our planet. This is why we make sure that the wood we use to produce our pallets is sourced from sustainable sources. We select raw materials obtained from a legal source and areas that are not environmentally valuable.



Bedding pellet production – Ząbkowice Śląskie

In the picturesque region of Kłodzko Valley, we produce the highest-quality, fully ecological pellets made of a selected mix of cereal straw. At Ząbkowice Śląskie, we develop the production in three segments. The litter pellet of the OnDry brand is produced using carefully selected straw, which makes it well-adapted to the requirements of farm animals and pets. We deliver it to markets in Poland, Germany, Denmark and Switzerland. Pellet as a substrate are delivered to biogas plants in Denmark and Germany, and the energy pellet goes to large, professional power stations in Poland.

Continuous improvement and production development, comprehensive service and flexibility allow us to meet even the most-stringent customer requirements.

Straw is our passion!

What sets us apart:

- Know-how in the production of agro pellets from straw
- Own brand of bedding pellets ONDRY for animals
- Production from selected, top-quality straw
- Full range of bedding pellets for animals
- High-quality products
- Product quality backed by regular quality tests
- Continuous improvement and product development
- Comprehensive service and flexibility

Plant in numbers:

- We produce more than 40,000 tons of straw pellets annually
- We cooperate with more than 50 straw suppliers in the region
- We accumulate more than 20,000 tons of straw in our warehouses during the harvest season

Bedding pellets

OnDry

We produce OnDry pellets from carefully selected straw, making it suitable for the requirements of both livestock and domestic animals.

The production process is thoroughly controlled – from the stage of straw selection to granulation and packaging – which makes OnDRY's products to be of the highest, repeatable quality, confirmed by regular research and laboratory tests.

The products we offer are completely ecological and free of chemical additives, which makes them environmentally friendly and fully biodegradable.

Strengths:

-  **ECONOMICAL** – less frequent replacement of pellet bedding than in the case of traditional straw, lower labour costs, less stock and storage space needed.
-  **NATURAL** – manufactured from specially selected straw from local farms.
-  **NO MICROBIOLOGICAL CONTAMINATION** – laboratory tested, reduction of fungi, moulds, mycotoxins in the production process.
-  **ABSORBENT** – from 400% to 650% of its weight (straw only up to 180%).
-  **ODOUR NEUTRALISING** – high absorption of ammonia fumes and reduction of unpleasant odours.
-  **ANTI-ALLERGEN** – reduction of dust fractions and allergens
-  **BIODEGRADABLE** – used granulate can be used as natural fertiliser or as a fuel for biogas plants.





OnDry Elite Pellets

OnDry Elite pellets are a top-quality product designed for safe and healthy horse breeding.

It's produced from carefully selected wheat straw, and for particularly demanding users there's also a version with rapeseed (the bitterness of rapeseed limits the potential consumption of pellets by the horse, and the oil fractions of rapeseed have a positive effect on hooves).

For horses or ponies with sensitive hooves, in the initial stage of use, we suggest using a more delicate crushed fraction.

Strengths:

- Manufactured from a specially selected straw blend.
- No chemical additives.
- Adapted to the needs of animals.
- The highest quality confirmed by tests.
- Constantly consulted with horse breeders and veterinarians.



OnDry Elite Pellets



BENEFITS TO THE OWNER

- intended for use in stables and means of transporting horses
- natural and eco-friendly
- used in the prophylaxis and treatment of horses with RAO and post laminitis.
- easy to lay out – saves time
- easy to stockpile
- biodegradable – perfect for composting
- constant availability throughout the year



BENEFITS TO THE ANIMAL

- prevents upper respiratory tract diseases and skin allergies
- prevents gastrointestinal problems
- prevents frog inflammation
- improves the comfort of breeding
- insulates from the ground
- provides a non-slip surface, making it easier to maintain a high level of hygiene



Technical parameters:

- Diameter: Solid fraction 6 mm, 8 mm
- Crushed fractions 4.5 mm
- Screened and dedusted

Microbiology:

- Presence of salmonella spp absent
- Presence of toxicogenic fungi absent
- Total microbial count 2.0×10^4 CFU/g
- Number of moulds and yeasts 3.0×10^2 CFU/g
- Clostridium perfringens count $< 1 \times 10^1$ CFU/g
- E.coli: $< 1 \times 10^1$ CFU/g



OnDry Chick Pellets

OnDry Chick's poultry bedding pellets are a bedding with high biological parameters and extended durability.

Designed for customers who expect the highest level of hygiene for poultry rearing and fattening, and the best production results while optimising production costs.

Depending on your needs and husbandry technology, we offer bedding in the form of crushed pellets available in one size fraction of 4.5 mm, and bedding in the form of granules with a diameter of 6 mm and 8 mm.

Strengths:

- Manufactured from a specially selected straw blend.
- Natural – no chemical additives.
- Adapted to the needs of animals.
- The highest quality confirmed by tests.



OnDry Chick Pellets



BENEFITS TO THE OWNER

- designed for use on poultry farms
- natural and eco-friendly
- improves animal welfare
- easy to lay out – saves time
- easy to stockpile
- biodegradable – perfect for composting
- constant availability throughout the year



BENEFITS TO THE ANIMAL

- reduces the risk of FPD (foot-pad dermatitis)
- reduces the number of lesser mealworm
- reduces the risk of avian influenza infection
- reduces the risk of respiratory diseases and allergies
- improves the comfort of breeding
- provides insulation
- provides a non-slip surface
- facilitates the maintenance of high levels of hygiene during rearing and fattening



Technical parameters:

- Diameter: Solid fraction 6 mm, 8 mm
- Crushed fractions 4.5 mm
- Screened and dedusted

Microbiology:

- Presence of salmonella spp absent
- Presence of toxicogenic fungi absent
- Total microbial count 2.0×10^4 CFU/g
- Number of moulds and yeasts 3.0×10^2 CFU/g
- Clostridium perfringens count $< 1 \times 10^1$ CFU/g
- E.coli: $< 1 \times 10^1$ CFU/g





OnDry Grand Pellets

OnDry Grand bedding pellets are produced with the needs of cattle and pig farmers in mind.

The natural OnDry bedding is highly absorbent and clean. It is also economical and easy to use. Our pellets have a significant impact on improving animal welfare.

Depending on the needs and technology of breeding, we offer bedding in the form of granules with a diameter of 6 mm and 8 mm, and crushed pellets available in one fraction of 4.5 mm.

Strengths:

- Manufactured from a specially selected straw blend.
- Natural – no chemical additives.
- Adapted to the needs of animals.
- The highest quality confirmed by tests.



OnDry Grand Pellets



BENEFITS TO THE OWNER

- for bovine and porcine animals.
- natural and eco-friendly
- improves animal welfare
- easy to lay out – saves time
- easy to stockpile
- biodegradable - perfect for composting
- constant availability throughout the year



BENEFITS TO THE ANIMAL

- reduces mechanical damage to the skin and udder
- prevents infectious diseases and rashes
- improves the comfort of breeding
- provides insulation
- provides a non-slip surface
- facilitates the maintenance of high levels of hygiene



Technical parameters:

- Diameter: Solid fraction 6 mm, 8 mm
- Crushed fractions 4.5 mm
- Screened and dedusted

Microbiology:

- Presence of salmonella spp absent
- Presence of toxicogenic fungi absent
- Total microbial count 2.0×10^4 CFU/g
- Number of moulds and yeasts 3.0×10^2 CFU/g
- Clostridium perfringens count $< 1 \times 10^1$ CFU/g
- E.coli: $< 1 \times 10^1$ CFU/g



Granules from selected cereal straw are pressed under high temperature and pressure

Straw pellets for heating purposes

Heating pellets from selected straw as a clean, ecological, efficient and cheap fuel are used in heating plants, combined heat and power plants, power stations and other industrial facilities.

Strengths:

-  Stable product parameters and high-quality raw material guarantee high performance.
-  Total moisture content in the working state does not exceed 11%.
-  There are no non-biodegradable substances in the formulation.
-  Selected cereal straw is used to produce heating pellets.

Straw pellets for heating purposes

Technical parameters:

- Total moisture content in the working state $\leq 11\%$
- Ash content $< 8.5\%$
- Calorific value $> 14.3 - 15.5 \text{ GJ/Mg}$
- Sulphur content $< 0.12\%$
- Chlorine content $< 0.3\%$

Dimensions:

- Diameter: 6 mm, 8 mm

Packaging:

- 1,000 kg Big Bag
- Bulk

Delivery

- Bulk transport up to 24 tonnes:
Moving floor
Tippers



Granules are pressed under high temperature and pressure from selected cereal straw

Straw pellets for agricultural biogas plants

High-quality straw pellets are an effective and efficient substrate that is successfully used in agricultural biogas plants.

Strengths:

-  15% better biogas yields than unshredded straw.
-  8.41 tonnes of pellets replace approximately 17.3 tonnes of maize silage.
-  Lower water content than maize silage.
-  Total moisture content in the working state does not exceed 11%.
-  Higher average unit methane yield compared with manure.
-  There are no non-biodegradable substances in the formulation.

Straw pellets for agricultural biogas plants

Technical parameters:

- Total moisture content in the working state $\leq 11\%$
- Sulphur content $< 0.12\%$
- Chlorine content $< 0.3\%$

Dimensions:

- Diameter: 6 mm, 8 mm

Packaging:

- 1,000 kg Big Bag
- Bulk

Delivery

- Bulk transport up to 24 tonnes:
Moving floor
Tippers



TSL Biomasa



The Biomasa Transport, Shipping and Logistics Department (TSL) is a rapidly growing division specialising in the provision of professional forwarding, logistics and national and international transport services. Since 2017, our company has held the TCF ELITE certificate, which is awarded only to the best forwarding companies! We're professional, fast, reliable and, above all, timely.

The TSL Department is made up of people who'll help you organise any delivery with passion, commitment and experience. We guarantee a personalised approach, price competitiveness, the safety of entrusted goods and professional service. We approach all partners individually and with the utmost care.

A broad base of carriers enables us to provide the fastest deliveries and timely, high-quality fulfilment of our customers' orders. We're constantly developing to meet the expectations of our customers.

We're a reliable partner.



TSL Biomasa



DOMESTIC TRANSPORT

We offer a wide range of logistics services throughout Poland in the field of courier shipments, partial and full truck deliveries carried out by standard transport (tarpaulin, curtainsider) and specialist transport (HDS, silo, tipper, moving floor, refrigerated truck and vehicles for wood transportation).



INTERNATIONAL TRANSPORT

We specialise in international full truck load road transport. We provide deliveries by tarpaulin trailers, road trains, containers and refrigerated trucks, as well as neutral, oversized and partial loads.

We can organise any type of transport, taking into consideration economics and delivery time.



TERRITORIAL SCOPE

We are successively increasing the scope of our activities, the range of services we provide and our territorial scope of operations. Our vehicles can be seen on Polish roads as well as on many European ones.

We strive to understand our customers' businesses so that we can always deliver thoughtful solutions that anticipate their needs. We're constantly improving in order to provide our contractors with state-of-the-art solutions and the highest-quality standards, no matter which direction we're currently travelling in.



BIOMASA[®]
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