

PRODUCT CARBON FOOTPRINT REPORT · ISO 14067

Carbon footprint of a product

Quantified life-cycle greenhouse-gas emissions, independently verified under the EPD Polska programme.

<p>PRODUCT</p> <hr/> <p>Sunflower-husk pellet animal bedding</p> <hr/>	<p>MANUFACTURER</p> <hr/> <p>Example Producer Sp. z o.o.</p> <hr/>
<p>DECLARED UNIT</p> <hr/> <p>1 tonne of pellets</p> <hr/>	<p>SYSTEM BOUNDARY</p> <hr/> <p>Cradle-to-gate + transport (A1–A4)</p> <hr/>
<p>REPORT NO.</p> <hr/> <p>CFP-P-00.06.2026</p> <hr/>	<p>REFERENCE YEAR</p> <hr/> <p>2025</p> <hr/>
<p>STANDARDS</p> <hr/> <p>ISO 14067 · ISO 14064-3 · ISO 14040/44</p> <hr/>	<p>VALID UNTIL</p> <hr/> <p>2031-06-30</p> <hr/>

142

kg CO₂e (fossil, GWP-total)
per 1 tonne · biogenic carbon reported separately

Prepared and verified under the EPD Polska programme operated by Multicert Sp. z o.o. · This is an illustrative specimen demonstrating report structure; figures are not a real declaration.

– Summary

This report quantifies the product carbon footprint (PCF) of **sunflower-husk pellet animal bedding** produced by Example Producer Sp. z o.o., expressed per **1 tonne** of finished pellets. The study follows ISO 14067 for quantification and ISO 14040/44 for the underlying life-cycle assessment, and was independently verified to ISO 14064-3 under the EPD Polska programme.

HEADLINE RESULT

142 kg CO₂e / tonne – fossil GWP-total, cradle-to-gate plus distribution (A1–A4). Biogenic carbon (uptake and release) is reported separately and not netted into the headline figure.

MAIN CONTRIBUTORS

Raw-material drying and pelletising energy (A3) dominate the footprint, followed by inbound transport of husks (A2). Electricity supply is the single largest lever for reduction.

– Contents

1 Programme, standards & verification basis	p. 3
2 Product & manufacturer	p. 3
3 Goal, scope, declared unit & system boundary	p. 4
4 Data collected & emission factors (what we need from you)	p. 4
5 Results – GWP by life-cycle module	p. 5
6 Interpretation & data quality	p. 5
7 Verification statement	p. 6

1 Programme, standards & verification basis

The footprint is quantified and reported under the **EPD Polska programme**, operated by Multicert Sp. z o.o. as programme operator. The programme defines the rules, verifier competence, the public register and impartiality safeguards.

ELEMENT	REFERENCE
Carbon footprint quantification	ISO 14067:2018
Underlying life-cycle assessment	ISO 14040:2006 / ISO 14044:2006
Independent verification	ISO 14064-3:2019
Characterisation (GWP-100)	IPCC AR6 (2021)
Programme rules	EPD Polska General Programme Instructions
Product category rules	Applicable PCR / sector c-PCR where available

2 Product & manufacturer

Product. Animal bedding in pellet form produced from sunflower-husk biomass, a by-product of vegetable-oil pressing. Supplied in 15 kg bags and big-bags.

Manufacturer. Example Producer Sp. z o.o., single production site, Poland. Annual output ≈ 12 000 t.

DECLARED UNIT

1 tonne (1 000 kg) of packaged pellets at the factory gate, ready for dispatch. All inputs and emissions in this report are expressed per declared unit.

3 Goal, scope & system boundary

Goal. To quantify the cradle-to-gate (plus distribution) product carbon footprint per declared unit for business-to-business communication and customer Scope-3 reporting.

System boundary. Modules A1–A4 are included; use and end-of-life (B–C) are outside the scope of this study.



Cut-off: flows < 1% of mass/energy excluded, max 5% total. Allocation of shared site energy by mass output. Biogenic carbon tracked separately (ISO 14067 §6).

4 Data collected & emission factors

Primary data – supplied by the manufacturer (the inputs we ask you for):

MODULE	DATA THE MANUFACTURER PROVIDES	UNIT / PERIOD
A1	Husk input, packaging materials (PE film, big-bag), bound per tonne output	kg / t
A2	Inbound transport: distances, vehicle class, load, fuel	km, t·km
A3	Electricity (kWh) & thermal fuel for drying/pelletising; supplier mix; process waste	kWh, MJ / t
A4	Outbound distribution: typical distance & mode to customer	km, t·km

BACKGROUND / SECONDARY DATA

Emission factors for fuels, electricity, transport and materials taken from recognised LCI databases and national factors (reference year 2025), characterised with IPCC AR6 GWP-100. Sources documented in the full inventory annex.

5 Results — GWP by life-cycle module

Greenhouse-gas results per declared unit (1 tonne), in kg CO₂e, characterised with IPCC AR6 GWP-100.

INDICATOR	A1	A2	A3	A4	TOTAL
GWP-total (fossil)	31	24	71	16	142
GWP-fossil	30	24	69	16	139
GWP-biogenic (reported separately)	-1 480	0	+1 483	0	+3
GWP-luluc	0.6	0.1	0.2	0.1	1.0

CONTRIBUTION TO FOSSIL GWP-TOTAL (142 kg CO₂e)



6 Interpretation & data quality

Production energy (A3) accounts for half of the fossil footprint — pelletising and drying electricity is the principal reduction lever; a lower-carbon electricity contract would materially cut the result. Inbound husk transport (A2) is the second hotspot. Primary data covers > 90% of contributing flows; technological, geographical and temporal representativeness rated good for the reference year.

7 Verification statement

INDEPENDENT VERIFICATION

The greenhouse-gas assertion in this report — a product carbon footprint of **142 kg CO₂e per tonne** (fossil GWP-total, modules A1–A4) — has been independently verified against ISO 14067:2018 and ISO 14064-3:2019 under the EPD Polska programme.



The verification covered the goal and scope, system boundary, data and emission factors, calculations and reporting. Preparation and verification were carried out by separate persons to ensure impartiality. Based on the evidence examined, the assertion is **materially correct and a fair reflection** of the product carbon footprint, at a limited level of assurance.

Lead verifier

EPD Polska verifier · ISO 14064-3

Programme operator

Multicert Sp. z o.o. · EPD Polska

REGISTER & VALIDITY

On issue, the declaration is published in the EPD Polska public register with a QR-verifiable entry. Valid until 2031-06-30 or until a significant change to the product or its data.

NORMATIVE REFERENCES

ISO 14067:2018 · ISO 14064-3:2019 · ISO 14040/44:2006 · ISO 14025:2010 · IPCC AR6 (2021) · EPD Polska GPI.

Specimen document — illustrative structure and figures only; not a real declaration and not a claim of national accreditation. © EPD Polska / Multicert Sp. z o.o.