

Certificate

according to the Renewable Energy Directive (RED II)

(Directive (EU) 2018/2001 on the promotion of the use of energy from renewable sources (recast))

Certificate Number: EU-ISCC-Cert-DE100-01718123

SGS Germany GmbH

Europa Allee 12, D-49685 Emstek

certifies that

Pannonia Bio Zrt.

Sas u. 7

7020 Dunaföldvár

HUNGARY

complies with the requirements of the certification system

ISCC EU

(International Sustainability and Carbon Certification)

and the requirements of the RED II.

Place of the audit:

see above



This certificate is valid from 30/09/2023 to 29/09/2024

The site of the system user is certified as:

biogas plant, biogas upgrading plant, ethanol plant, first gathering point, point of origin, trader with storage

Emstek, 29/09/2023

Place and date of issue

SGS HUNGARY
SGS Germany GmbH

Stamp, Signature

The issuing Certification Body is responsible for the accuracy of this document.

Version / Date: 4 (3 adjustments) / 13/02/2024



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Annex to the certificate:

Sustainable materials handled by the certified site

(This annex is applicable for all scopes except of Traders, Traders with storage, Warehouses, Logistic centres, MTBE and ETBE plants)

This annex is only valid in connection with the certificate:

EU-ISCC-Cert-DE100-01718123 issued on 29/09/2023

Input material		Output material		GHG values ¹	ISCC EU waste process applied ²	SAI/FSA ³
Material	Scope *	Material	Scope *			
corn / maize	first gathering point	corn / maize	first gathering point	1+3	No	
barley	first gathering point	barley	first gathering point	1	No	
corn / maize	bioethanol plant	bioethanol (corn / maize)	bioethanol plant	2	No	
starch slurry (low grade)	bioethanol plant	bioethanol (starch slurry (low grade))	bioethanol plant	2	Yes	
wet corn fiber	biogas plant	biogas (wet corn fiber)	biogas plant	2	Yes	
husks (barley)	biogas plant	biogas (husks (barley))	biogas plant	2	Yes	
biogas (husks (barley) , wet corn fiber)	biogas upgrading plant	biomethane (husks (barley) , wet corn fiber)	biogas upgrading plant	2	Yes	
		wet corn fiber	point of origin	2	Yes	
		starch slurry (low grade)	point of origin	2	Yes	

	Please indicate which scope(s) handle the material in case the certificate covers more than one scope. This does not apply for the following scopes: Trader, Trader with storage, Warehouse, Logistic Center, MTBE and ETBE plant
1	1: Default value
	2: Actual value
	3: NUTS 2 value or "NUTS2-equivalent" value. A "NUTS2-equivalent" value is a GHG value for cultivation in a "NUTS2-equivalent" region of a country outside the European Union (values are implemented by the European Commission). Option 3 is only applicable for the level of cultivation, i.e. for first gathering points, farms/plantations, central offices (group of farms or independent smallholders)
2	Yes: The raw material meets the definition of waste or (processing) residue according to the RED II
	No: The raw material complies with the relevant sustainability criteria according to Art. 29 (2)-(7) RED II
3	Farm Sustainability Assessment (FSA) was developed by the Sustainable Agriculture Initiative (SAI)
	SAI Gold Compliance: ISCC Compliant material can be claimed as "SAI FSA 3.0 Gold Level Equivalence"

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Material	Scope *	Material	Scope *			
		husks (barley)	point of origin	2	Yes	
		waste/residues from processing of alcohol (barley, corn / maize)	point of origin	2	Yes	
		technical corn oil	point of origin	2	Yes	

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