



# Facility Audit Statement

Statement No	Date of Issue	Valid to:
FAS – 0015	06.03.2024	05.03.2029

\*This statement is valid until the issue of the new statement but will expire no later than 5 years from the Date of Issue.

**Sonnenerde GmbH**  
 Oberwarter Strasse 100  
 7422 Riedlingsdorf

Facility Reg. Number: 643002406801000299  
 ID-Number: PE-70402



## Statement

Based on the verification process, bio.inspecta AG states that the organization has defined and maintained procedures relevant for the production of CO2 removal. Based on the verification the facility is found compliant with Puro.earth CO2 Removal Marketplace requirements.

Facility Registration Number	CO2 Removal Type	Eligibility of the Production Facility
643002406801000299	Biochar	Eligible

Place, 06.03.2024

Ueli Steiner  
 CEO

Philipp Seitz  
 Auditor



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## Output Audit Statement

puro·earth

Statement No	Date of Issue	CO2 Removal type	CO2 Removal factor
OAS-0028	06.03.2024	Biochar	P500, Batch EBC ba-at-34-1-4 (01.09.22 – 31.08.23) = 2,067 tCO <sub>2</sub> / t (dry) - Pyrodry, Batch EBC ba-at-34-2-1 (01.09.23 – 19.12.23) = 1,680 tCO <sub>2</sub> / t (dry)

### Sonnenerde GmbH

Oberwarter Strasse 100  
7422 Riedlingsdorf  
ID-Number: PE-70402

P500 Facility registration number: 643002406801000299  
Facility Audit Statement: No. FAS-0005 valid to 14.10.2026

Pyrodry Facility registration number: 643002406801000817  
Facility Audit Statement: No. FAS-0015 valid to 05.03.2029



### Statement

Based on the verification process, bio.inspecta AG states that the quantification of CO<sub>2</sub> Removal achieved in this facility is found compliant with the requirements in standard Puro.earth CO<sub>2</sub> Removal Marketplace General Rules 3.0 – and Annex A: Biochar Methodology.

Records and data files have been produced and updated in a reliable way to assess the eligibility and validate the quantification of the CO<sub>2</sub> Removal achieved by production of Biochar.

#### Carbon Dioxide removal eligible for CORCs:

P500: 2,067 tCO<sub>2</sub>e per 1 ton of biochar (moisture 0%); Production period: 01.09.2022 – 31.08.2023

Pyrodry: 1,680 tCO<sub>2</sub>e per 1 ton of biochar (moisture 0%); Production period: 01.09.2023 – 19.12.2023

CO<sub>2</sub> removal type: Biochar

Production Facility Name: Sonnenerde GmbH

Location: Oberwarter Strasse 100, 7422 Riedlingsdorf, Austria

ID-Number: PE-70402

Inspection report: puro.earth\_bio.inspecta\_Validation Report\_Sonnenerde\_06.03.2024

The verification was conducted by bio.inspecta AG with a reasonable level of assurance.

An audit is based on the verification of available information and on the selective testing of the information being examined. Due to this it is possible that fraud, error or non-compliances may occur but not be detected. The final conclusion in the statements has been formed on the basis mentioned above.

**Frick, 06.03.2024**

Ueli Steiner

CEO

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Philipp Seitz

Auditor

Net carbon sequestration over 100 years

$$CORCs = E_{\text{stored}} - E_{\text{biomass}} - E_{\text{production}} - E_{\text{use}}$$

Complete the sections on the yellow background				
Shipped eligible production volume	tn		116,69	
Bulk Density	kg/m <sup>3</sup>		245,00	Carbon over dry weight of biochar.
Moisture content of sample	%		39,30 %	
$Q_{\text{biochar}}$	dry metric tonnes		70,831	
$C_{\text{Org}}$	w-%		72,70 %	The organic carbon content of the biochar produced. It is expressed in dry weight of organic carbon over dry weight
H	w-%		1,30 %	
TH	years		100	Time horizon, 100 years
Soil Temperature Ts	°C		14,9	Please provide the annual average soil temperature in the region where biochar is used. The global average temperature
Molar H/C <sub>org</sub> ratio	%		0,21	The permanence factor of biochar organic carbon over a given time horizon TH in a given soil at temperature TS.
$F_p^{TH,TS}$	%		90,82 %	The permanence factor of biochar organic carbon over a given time horizon TH in a given soil at temperature TS.
Ratio between the molar mass of carbon dioxide and the molar mass of carbon	44/12		3,67	
$E_{\text{stored}}$	mt CO <sub>2</sub> eq / mt biochar (dry)		2,421	Biochar carbon storage
GHG emissions from biomass cultivation and harvesting	mt CO <sub>2</sub> eq / mt biochar (dry)			Please reference LCA (stage A3)
GHG emissions from direct land use change	mt CO <sub>2</sub> eq / mt biochar (dry)			In many cases, direct land use changes are given a null value (o emission from changes in biogenic carbon stocks), but this
GHG emissions from transport of the biomass from the harvest site to the biochar production site	mt CO <sub>2</sub> eq / mt biochar (dry)		0,090	Please reference LCA (stage A3)
$E_{\text{biomass}}$	mt CO <sub>2</sub> eq / mt biochar (dry)		0,090	Biomass production and supply
GHG emissions from biochar production process	mt CO <sub>2</sub> eq / mt biochar (dry)		0,230	Please reference LCA (stage A3: Pyrolysis, electricity, fuel oil, packaging)
$E_{\text{production}}$	mt CO <sub>2</sub> eq / mt biochar (dry)		0,230	Biochar production
GHG emissions from distribution of biochar to the point of final use	mt CO <sub>2</sub> eq / mt biochar (dry)		0,017	In many cases, direct land use changes are given a null value (o emission from changes in biogenic carbon stocks), but this
Use of the biochar, including its application	mt CO <sub>2</sub> eq / mt biochar (dry)		0,017	Please reference LCA (stage B3)
$E_{\text{use}}$	mt CO <sub>2</sub> eq / mt biochar (dry)		0,034	Biochar user expected product use, to use correct units it is known by the biochar producer. This term should include at least all greenhouse gas emissions from the transportation and handling of biochar until it is used in a mineral matrix (soil)
CORC FACTOR (net carbon sequestration over 100 years)	mt CO <sub>2</sub> eq / mt biochar (dry)		2,067	
Total number of CORCs	CORCs		146,42	