Carbon cycle, Germany. Premium quality biochar   Price 119 € / CORC

ITEM

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DEALER

Carbon Cycle
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DESCRIPTION

Carbon Cycle is an innovative, privately owned agricultural company based in south-eastern Germany. The company's goal is to produce high-quality biochar, which offers solutions to modern agriculture problems. The product has many benefits; the loss of nutrients and nitrate leaching is reduced, the use of fertilizers is considerably reduced, groundwater is protected, and soil fertility is sustainably improved. The production of one ton of high-quality biochar results in 2.86 tonnes of harmful carbon dioxide becoming firmly bound for centuries enabling the responsible farmer to make an important contribution to climate and environmental protection.

Carbon Cycle sells its biochar to the farming industry in several EU countries. The biochar has been approved as a soil additive and as animal feed. Carbon Cycle holds the European certificate of sustainably produced biochar (EBC). The cascade usage of biochar in agriculture begins with the feeding of ÖKO FEED biochar and ÖKO TERR for the litter. Animal health and welfare are improved, and the biochar becomes loaded with liquid manure, which becomes a valuable natural fertilizer when applied to the soil.

Untreated wood chips locally sourced from PEFC certified forests are used as feedstock for the biochar. Each tonne of biochar sequesters 2.86 tonnes of CO_2. Using the O-molar ratio from the product analysis, the carbon content's stability can be accurately measured.

Carbon Cycle has been issued with CORC's by the Puro marketplace in accordance with the strict Puro methodology for biochar production. All lifecycle emissions are considered. The facility and certifications have been third-party verified ex-post.

Additional audit information
Production output audit statement

CARBON REMOVAL INFORMATION

Carbon removal method :	Biochar
Capture of CO2:	Photosynthesis
Stabilization of CO2:	Pyrolysis
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Permanence:	Over 1000 years

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Status of production:	Audited
Unit of product volume:	tonne
Embodied carbon in product:	2.86 Kg/Kg
Year or years of CORCs issued:	2020
Minimum amount to negotiate:	200
Examples of usage:	Animal feed Animal litter Soil improvement

Co-benefits:

The produced biochar is deployed, either directly, or indirectly for soil improvement. It greatly increases water and nutrient retention in soil. Biochar also reduces the need for artificial fertilizers, which are typically energy-intensive to produce.

The use of biochar as an animal feed additive has well-documented health benefits and reduces methane emissions.

Explanation of avoided emissions:

By capturing waste forest biomass of low economic value from sustainably managed forests and stabilizing the carbon through pyrolysis, biochar safely captures CO_2 that would otherwise be released back to the atmosphere if the biomass had been left to decompose or was combusted.

Economic acceleration impact:

The revenue gained by carbon removal suppliers speeds their growth, compounding the climate effect, and accelerating the carbon net-negative economy. Carbon cycle started production of biochar in 2019 with a highly efficient e-flox design production system. Given the sufficient demand, the plan is to scale up production significantly. The revenue from carbon removal certificates is an essential part of the business case for further investment.

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AUDIT INFORMATION

Audit statement :

https://static.puro.earth/live/uploads/tinymce/Suppliers/Carbon_Cycle/Puro__Facility_audit-statement_Carbon_Cycle_19.11.2020.pdf

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