

Biochar from France

Price 320 € / CORC



ITEM

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DEALER

Terra Fertilis

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DESCRIPTION

Sylva Fertilis is part of the SLB Group, a forestry consortium in France. The company manufactures high-quality biochar products for both retail and wholesale markets and is one of the largest suppliers in France.

Sylva Fertilis' process involves the production of biochar from wood pellets at their facility at Argentan, in the Normandy region. The wood pellets are sourced from a manufacturer near Reims in the east of France, which produces pellets from timber from forests certified by the PEFC as non-controversial. Two granularities of char are produced: 0-1 mm and > 1mm. A small share of the biochar is augmented with mycorrhizal fungi to create soil improvement products that are marketed under the Terra Fertilis® brand. The remaining volumes of biochar are sold as soil improvement products to municipalities, farmers, golf courses, wine producers and forestry operations.

The biochar has an extremely high carbon content, 94%, each dry ton of biochar contains 3,4 tonnes of CQ. A lifecycle assessment (LCA) of Sylva Fertilis' production process was carried out by Accend in June 2021. The LCA accounts for all process emissions from the harvesting of forestry materials, chipping and pelletizing, transport, energy use and packaging and confirms that 2.80 tonnes of CO<sub>2</sub> are stored for every 1 ton of biochar.

The company has recently taken the decision to double their production capacity, supported by CORC buyers.

CARBON REMOVAL INFORMATION

<b>Carbon removal method :</b>	Biochar
<b>Capture of CO<sub>2</sub>:</b>	Photosynthesis
<b>Stabilization of CO<sub>2</sub>:</b>	Pyrolysis
<b>Stabilization of CO<sub>2</sub>:</b>	Pyrolysis
<b>Permanence:</b>	Over 1000 years
<b>Status of production:</b>	Audited
<b>Unit of product volume:</b>	tonne

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**Embodied carbon in product:**

2,80

**Year of first issuance:**

2021

**Minimum amount to negotiate:**

200

**Avoided emissions (mention avoided emissions in tonnes):**

622 Kg CO<sub>2</sub>e per ton of Biochar

**Examples of usage:**

Soil improvement for agriculture, including wine production. The basis for organic fertiliser.

**Co-benefits:**

Harvesting and forestry management sustainably decreases the risk of forest fires, insect damage and diseases.

Biochar is deployed directly or indirectly for soil improvement. It dramatically increases water and nutrient retention in the soil leading to yield increases.

Biochar reduces nutrient leaching, which has caused damage to waterways and seas. Biochar reduces the need for artificial fertilizers, which are typically energy-intensive to produce.

Green jobs: The production of biochar creates green jobs throughout the value chain from harvesting to distribution and usage.

**Explanation of avoided emissions:**

The baseline scenario for the usage of pellets is combustion, either domestically or in bioenergy production. In other words, in the absence of Sylva Fertilis' production, the pellets used as feedstock would be burnt resulting in the release of CO<sub>2</sub>. The global warming impact of burning pellets is between 150-190 gr. CO<sub>2</sub> e/MJ. In the long-term, these emissions can be considered to be carbon-neutral as the source is biomass.

**Economic acceleration impact:**

The income from Puro.earth allows Sylva Fertilis to develop and grow their business. They have made the decision to double their production capacity by investing in an additional pyrolysis reactor. CORC revenue are also invested into creating new distribution channels for Biochar which will, in turn, increase carbon removals.

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## AUDIT INFORMATION

**Audit statement :**

[https://static.puro.earth/live/uploads/tinymce/Suppliers/Terra\\_Fertilis/Puro\\_\\_Facility\\_audit-statement\\_FAS-0006\\_Sylva\\_Fertilis.pdf](https://static.puro.earth/live/uploads/tinymce/Suppliers/Terra_Fertilis/Puro__Facility_audit-statement_FAS-0006_Sylva_Fertilis.pdf)

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