

Bella Biochar Corporation

Price 500 € / CORC



ITEM

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DEALER

Bella Biochar Corporation

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DESCRIPTION

Bella Biochar is truly a Cinderella Story as the only Canadian, commercial scale manufacturer of non-pyrolytic, Organically Certified, premium quality biochar, produced from landfill diverted biomass. The granddaughter of European Peasant Farmers, Bella's CEO and Founder, Jodi Formosi, learned to respect the Environment and Agriculture at a young age. When she combined that respect with her passion as a Pollution Solution Consultant, Jodi realized the gap in the World Biochar Market for premium quality biochar and Carbon Dioxide Removal. She also recognized the need for Environmentally and Socially Responsible Governance of waste wood biomass, in lieu of the unnecessary and irresponsible way it was being landfilled and/or left to decay. As a result, in April, 2019 Bella Biochar was incorporated.

Determined to build a company on scientifically substantiated research and development, in 2020 Bella became a member of the Natural Sciences and Engineering Research Council of Canada by establishing a Collaborative Industry Partnership with the University of Western Ontario. The first lesson learned was that not all biochar is created equally. The raw material base used and the temperature that the material is heated in, and then cooled at, changes the chemical composition of the biochar. The Bella Team then completed the rigorous research and development necessary to determine optimal feedstock intake and manufacturing protocols, while using a process temperature double that of pyrolytic biochar. Ultimately, the Bella Team succeeded at producing a cleaner, purer, biochar with consistently high carbon content and superior porosity and adsorption properties compared to that of Activated Carbon. Upon Organic Certification, Bella Biochar began pioneering the premium quality Biochar Market in Canada.

Bella's second goal of proving Climate Resilience was realized by completing a Life-Cycle Analysis in 2021. For every metric tonne of Bella Biochar produced, approximately 3 metric tonnes of Carbon Dioxide are removed from the atmosphere and remain stored. Accordingly, Bella aligns with the Paris Agreement, the Intergovernmental Panel on Climate Change and the United Nations' Sustainable Development Goals 2, 3, 6, 9, 12,13, 14, and 15. Today, Bella is honored to be the first corporation in Canada and the first female owned/operated/founded corporation in the world, to be accredited by Puro.earth as a Certified Carbon Removal Supplier. Bella proudly identifies as "Canada's Carbon Queen" and "Planet Earth's Net Zero Partner".

CARBON REMOVAL INFORMATION

Carbon removal method :	Biochar
Capture of CO2:	Photosynthesis
Stabilization of CO2:	Soil amendment production
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Permanence:	Over 100 years
Status of production:	Audited

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Unit of product volume:	tonne
Embodied carbon in product:	80-90%
Year of first issuance:	2022
Minimum amount to negotiate:	5
Examples of usage:	Wetland Restoration Mine Remediation Air/Water/Soil Filtration Soil Amendment/Growing Medium/Substrate

Co-benefits:

- Landfill Diversion: Bella Biochar uses only landfill diverted biomass as feedstock including clean waste wood and forest debris
- Averted Biomass Carbon Release: Forest carbon is released when trees decay after dying as a result of old age or of fire, insect attack or other disturbance
- Ecosystem Protective Alternative to:
 - 1. Peat Moss: Bogs are excellent natural carbon sinks; however, once harvested, Peat Moss releases CO₂ into the atmosphere.
 - 2. Fertilizer: Degrades soil quality and leaches into waterways. Bella Biochar can benefit the micro-organisms for the plant's growth, reducing fertilizer use because the microorganisms will play a role to allow nutrients for the plant growth
 - Remediation/Filtration of Air, Water, Soil-Bella Biochar has scientifically proven superior adsorption properties compared to Activated Carbon, making it an excellent for removal of odour, moisture and chemicals
 - Reduced Food Scarcity: When added to soil and/or feed Bella Biochar can significantly increase both crop and dairy yields
 - Water Stewardship-Bella Biochar reduces drought risk and overwatering by retaining moisture in its pores and slowly releasing it as needed
 - Reduced Spread of Zoonotic Disease/Antibiotic & Hormone Use: When added to animal bedding or feed, Bella Biochar's natural antimicrobial activity along with moisture and odor adsorption, reduces Upper Respiratory and other infections in livestock, thereby reducing the need for antibiotics.
 - Reduced Methane Production: As a non-pyrolysis biochar Bella does not produce Methane. Additionally, Bella Biochar will improve livestock digestion and reduce Cattle methane production.

Economic acceleration impact:

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The revenue earned from the sale of CORCs will support Bella in the following ways:

1. Scale Impact and increase net Carbon Removal Bella's current annual production is approximately 500 metric tonnes of biochar/1500 metric tonnes of CORCs but we have the capacity to increase to 6,500 mt biochar/20,000 mt CORCs annually.
2. Increased revenue will finance the purchase of equipment necessary to align our production with processing by harnessing heat from our plant combined with wind and solar to power drying, screening and bagging of biochar.
3. Allow us to purchase equipment to further reduce our Carbon Footprint.

AUDIT INFORMATION**Audit statement :**

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