

Biochar Feedstocks and Applications Document

Version 1, 12 July 2024

Carbon Credits (Carbon Farming Initiative) Act 2011

Carbon Credits (Carbon Farming Initiative—Biochar) Methodology Determination 2024

Introduction

The *Biochar Feedstocks and Applications Document version 1* is prepared and published by the Department of the Environment for the purpose of the *Carbon Credits (Carbon Farming Initiative—Biochar) Methodology Determination 2024* (the Determination). It contains a list of eligible biomass feedstocks (see Table 1) and a list of eligible product applications (see Table 2) under the Determination.

The Determination requires the Department to publish this document within three months of the commencement of the Determination and to consider revising the document to ensure that the eligible biomass feedstocks and product applications are updated to maintain the integrity of the abatement calculations. Accordingly, this version 1 may be replaced from the date when a subsequent version is published.

Table 1—Eligible Biochar Feedstocks

Class	Feedstock	Categories
1	Agricultural waste	<ul style="list-style-type: none">- Harvest residues- Orchard, vineyard, woody biomass from pruning- Orchard/vineyard renewal clearings- Fruit and vegetable residues, including nut shells
2	Anaerobic Digestion Waste	<ul style="list-style-type: none">-
3	Animal husbandry waste	<ul style="list-style-type: none">-
4	Aquaculture by-products	<ul style="list-style-type: none">-
5	Food processing residues	<ul style="list-style-type: none">- By-products, residues and waste- Expired food- Food service organic waste/residues
6	Water Utility by-products	<ul style="list-style-type: none">- Water treatment sludge- Sewage sludge- Biosolids
7	Forestry	<ul style="list-style-type: none">- By-products and residues from harvesting or forest management activities (e.g., slash), including biomass treated and/or removed during fuel reduction or pest management activities- Non-merchantable post-disturbance (pest infestation, wildfire, windthrow) woody

Class	Feedstock	Categories
		biomass
		- Waste and residues from management of woody vegetation associated with agroforestry and rangelands
8	Wood processing	- By-products and residues from wood processing facilities
9	Urban waste	- Urban/rural green waste (pruning/cuttings, landscaping residues)
		- Construction/lumber waste
		- Wastepaper and cardboard
		- Biomass component of municipal solid waste

Table 2—Eligible Biochar Applications

Class	Application	Categories
1	Agricultural, horticulture, home gardening, and/or forestry	- Direct soil amendment
		- Agricultural water filtration
		- Compost additive
		- Animal bedding, with eventual field application
		- Horticultural growth media
		- Animal feed supplement
2	Urban	- Non-food/-feed soil applications (such as urban trees and/or landscaping, green roofs)
3	Construction/ engineered materials	- Cement additive
		- Gypsum additive
		- Mineral plaster additive
		- Clay additive
		- Asphalt additive (cold mix only)
		- Wood polymer composites
		- Graphite substitute in batteries
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4	Permanent storage structures	- Landfill disposal, including as alternative daily cover and landfill solidification/ stabilization
5	Filtration media	- Activated carbon substitute (granular or powder form)
6	Environmental remediation/ stabilisation and wastewater sanitation	- Activated carbon substitute
		- Effluent polishing
		- Erosion control
		- Septic and transpiration trenches
		- Soil remediation
		- Stormwater management