



BLACK BULL BIOCHAR

Scaling Carbon Dioxide Removal



Biochar: The Front-Running Carbon Dioxide Removal Technology

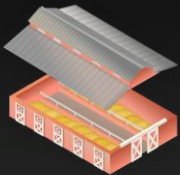
Biochar is a carbon-rich product produced by stabilising the carbon captured in biomass. It is produced by heating biomass in a low-oxygen environment through a process called pyrolysis. The carbon can be stored in soil for thousands of years...

What can Black Bull Biochar do to revolutionise agriculture?



Enhance Organic Fertiliser

More composting and nutrient retention; less ammonia and greenhouse gasses.



Improve Housing Conditions

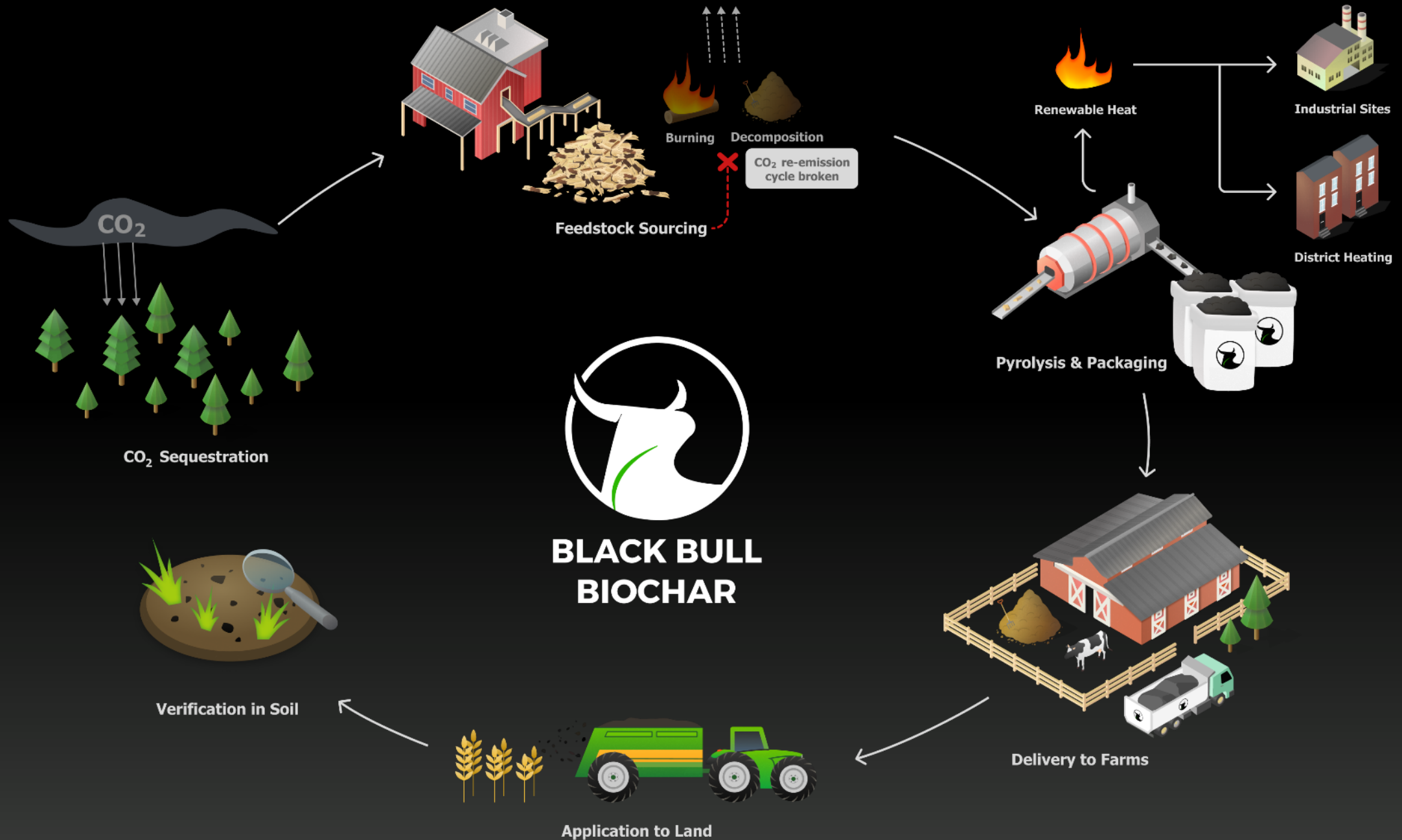
Reduces moisture and bacteria in bedding to keep livestock clean and healthy.



Healthier Soils

Improved water and nutrient availability for more productive crops.





**BLACK BULL
BIOCHAR**



The Team: Driven by Core Values of Quality, Teamwork, Collaboration & Pragmatism



Alex Clarke

Co-founder & CEO



Hamish Creber

Co-founder & CTO



Mike Doswell

Director (TSP)



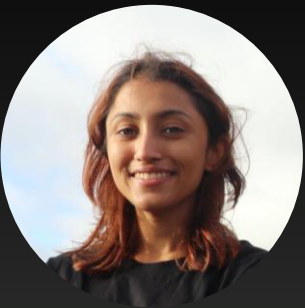
Emily Thompson

Board Observer (OCC)



Santiago Issa

Board Observer (GMCA)



Shefali Bagaria

Innovation Manager



Meg Evans

Head of Finance



Nicholas Hughes

Head of Pyrolysis Operations



Darren Foden

Plant Operator



Matt Hamilton

Innovation Manager



Ahlstrom Radcliffe: The First PYREG in the UK & BBB's Operational Excellence Hub

<400 t carbon removal pa
Separate from emissions reduction

PYREG

NET ZERO TECHNOLOGY

 **AHLSTROM**



**BLACK BULL
BIOCHAR**

A.W. Jenkinson Newton Rigg: The First Biomacon in the UK & BBB's Scale up Unit

<1200 t carbon removal pa
Separate from emissions reduction



BIOMACON₂

A.W. Jenkinson
FOREST PRODUCTS



BLACK BULL
BIOCHAR

Tailored Biochar: Innovative Biochar Products Catalysing the Dairy Market

Scotland's Rural College (SRUC), and the UK Centre for Ecology & Hydrology (UKCEH), are conducting [pioneering field trials using biochar](#) as an additive to organic fertilisers on dairy farms in the UK.

Here are the latest results for grassland...



Plots Grassland
Plots Arable

0 100 200 300 400m



18%

Increase in annual
grassland yield

19%

Greater available soil
nitrogen on average

31%

Increase in available
nitrogen in slurry

0.49

Increase in soil pH



The Biochar Demonstrator Hub: Livestock Farmers Changing the Face of Farming

BBB worked with 10 farmers applying biochar as an additive to organic fertiliser.

The quality of our biochar product is proven through the **European Biochar Certificate** (EBC), the leading standard for biochar quality.



Biochar Lab Analysis: Key Results

Property	Value	Notes
Total carbon (dry basis)	91.4%	1 t of our biochar stores the equivalent of 3.35 t of CO ₂ . (note: storage ≠ removal)
H/C ratio (molar)	0.22	Lower H/C ratio means higher carbon stability. A H/C ratio of 0.22 gives our biochar the highest possible carbon storage (<0.7 is EBC requirement).



Biochar Farmer Ian, receiving the first bag of Black Bull Biochar made.





Alex Clarke

Co-founder & CEO

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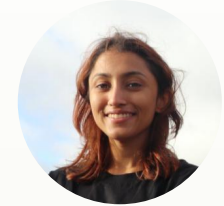
Any Questions?



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