

Climate migration



Heat waves



Droughts



Pests & diseases in Agriculture

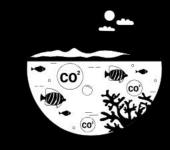


Loss & Damage

A PERIOD OF CONSEQUENCES



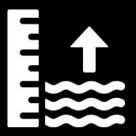
Ocean Acidification



Ecosystem Disruption



Sea Level Rise



Forest fires



WHY CARBON SEQUESTRATION?

To limit global warming to below 1.5°C, key agreements like the Kyoto Protocol and the Paris Agreement were established. Despite efforts, global CO2 emissions rose in 2023, necessitating new carbon removal technologies like BECCS, biochar, rock weathering, and DACCS.











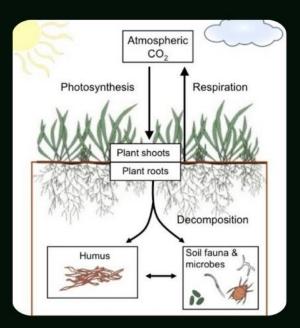
OFFSET CO₂ EMISSIONS

REDUCE ATMOSPHERIC CARBON DIOXIDE

MEET LONG TERM CLIMATE GOALS

LIMIT GLOBAL WARMING

METHODS OF CARBON SEQUESTRATION



Technological Sequestration:



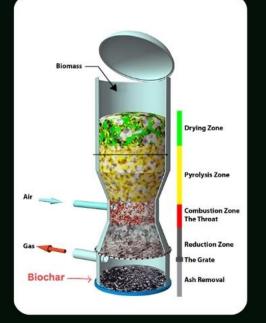
MEDIUM PERMANENCE MEDIUM COST/TON CO2

Utilizes advanced technologies like direct air capture and bioenergy with carbon capture and storage (BECCS) to remove and store CO2

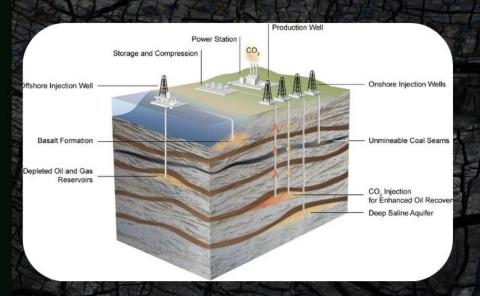
Biological Sequestration:



Involves capturing carbon through natural processes such as plant growth and soil management.







Geological Sequestration:



HIGH PERMANENCE HIGH COST/TON CO2

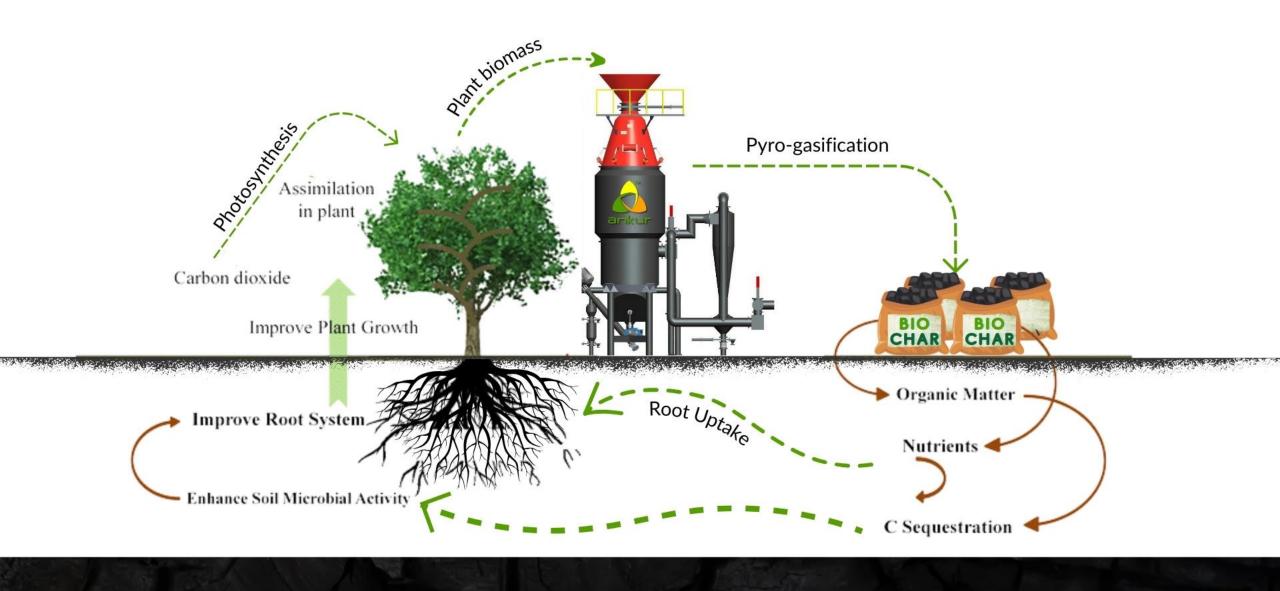
Focuses on storing CO2 in underground rock formations, preventing its release into the atmosphere.



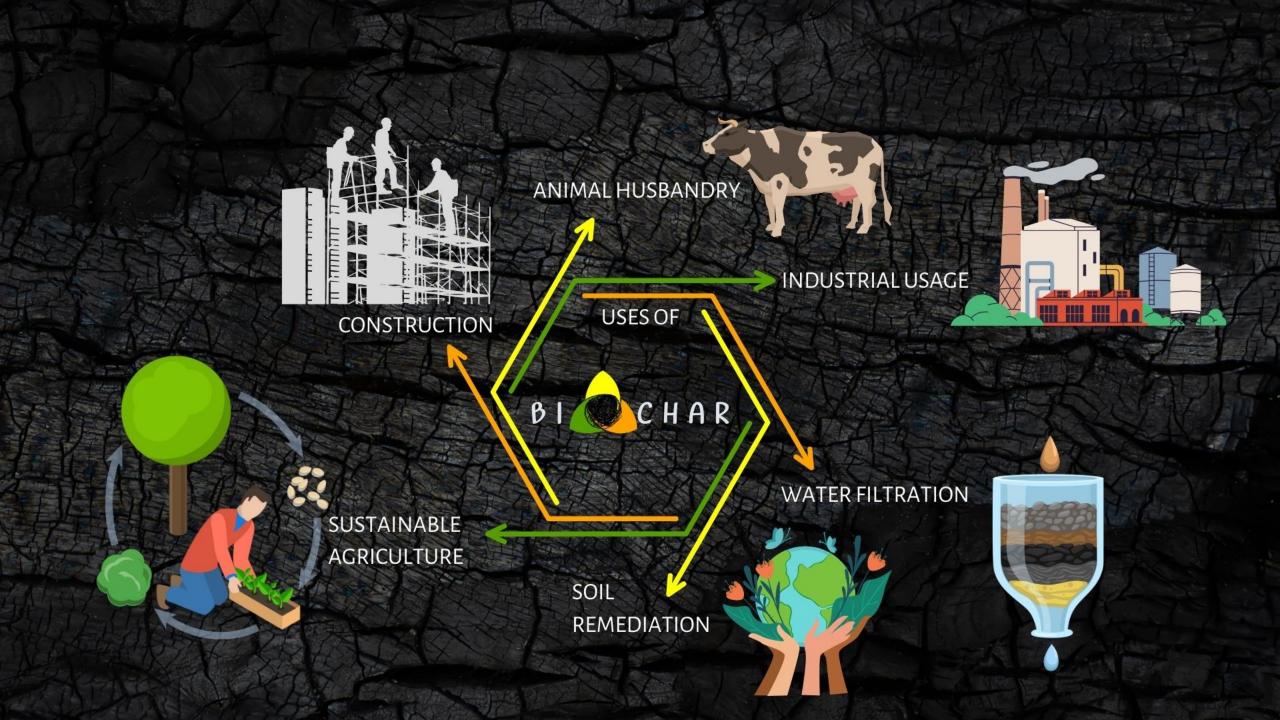
WHAT IS BIOCHAR?

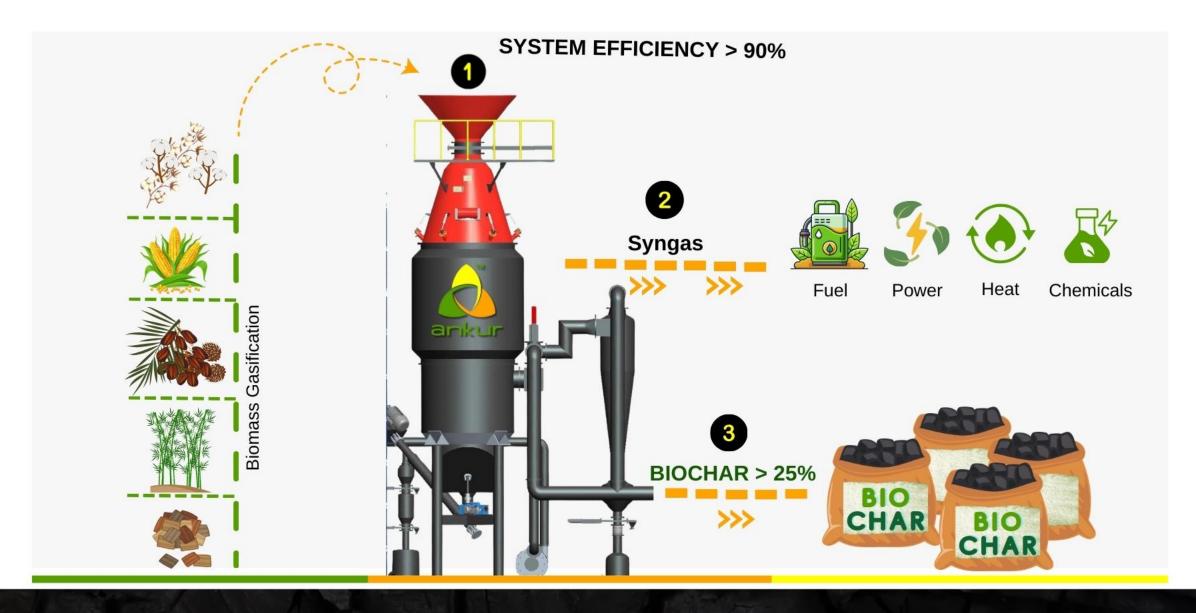
Biochar is a fine-grained, highly porous material produced from biomass such as agricultural by products, forestry residues, and solid waste (e.g., sewage sludge). It is created through high-heat, low-oxygen processes like pyrolysis or gasification. Biochar is recognized as one of the most cost effective solutions for permanently mitigating climate change today.





HOW BIOCHAR SEQUESTERS CARBON?



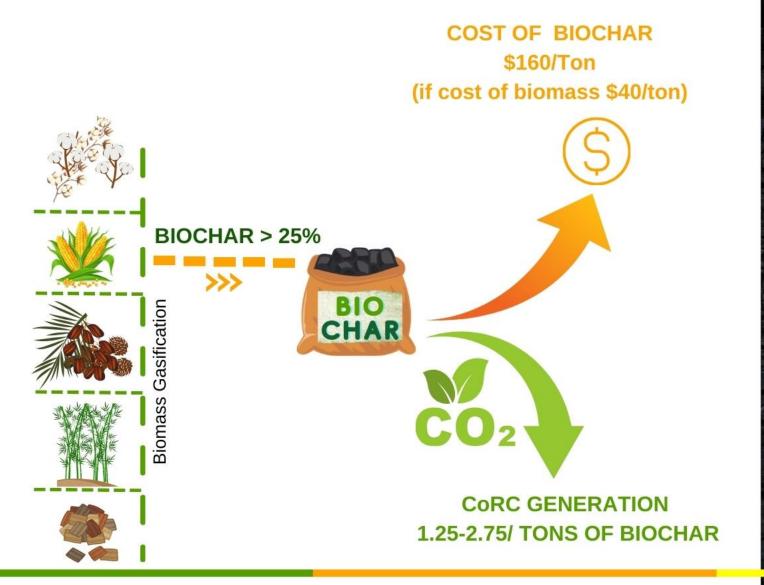








CARBON CAPTURE & COST





- Based on C in biochar, CO2 captured can range from 1.25 to 2.75 tons of CO2 per ton of biochar.
- Each tonne of biochar can thus generate between 1.25 to 2.75
 CoRCs.
- Assuming a biomass cost of around USD 40 per tonne, cost of biochar generation is about USD 160 per tonne.
- Syngas is available free of cost for various applications like Process
 Heat, Power Gen., making fuels and chemicals etc.

ABOUT US



Founded in 1986 by Dr. B. C. Jain, a gold medalist from BITS, Pilani, Double M.S., Ph. D, & M.B.A. from M.I.T. (Cambridge), an internationally acclaimed technocrat.



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