



FEEDSTOCKS

ONE CARBON NEGATIVE PLATFORM

Designed for Regional Biomass realities.

PYRO-GASIFICATION

Advanced thermal conversion with system efficiency >90% & low emissions



WASTE

Transforming Biomass to valuable outputs.



ENERGY

Local, Clean, reliable energy for thermal application.



CARBON

High quality Biochar for good Soil health & Carbon capture

KEY SPECIFICATION

 ISOMETRIC Carbon Removal through Biochar produced by Isometric Preapproved PG series	75% fixed Carbon	>6500 kcal/kg Value	<10% Ash Content
	180-350 kg/m3 bulk density	5-12% Volatile Matter	H/C ≤ 0.3

FEEDSTOCKS WE PROCESS

Visit our gallery of 60+ feedstocks on www.ankurscientific.com/feedstocks



Almond Shell



Bamboo Pieces



**Deoiled Cashew
Nut Shell**



Coconut Shell



Coffee Husk



Corn Cob



**Cotton stalk
briquette**



EFB Briquette



**Grape Marc
Briquette**



Groundnut Shell



Mango Seed



**Mustard Stalk
Briquette**



**Olive Pomace
Briquette**



**Palm Kernel
Shell**



**Rice Straw
Briquette**



**Soya Stalk
Briquette**



**Sugarcane
Bagasse**



Sunflower Hull



Walnut Shell



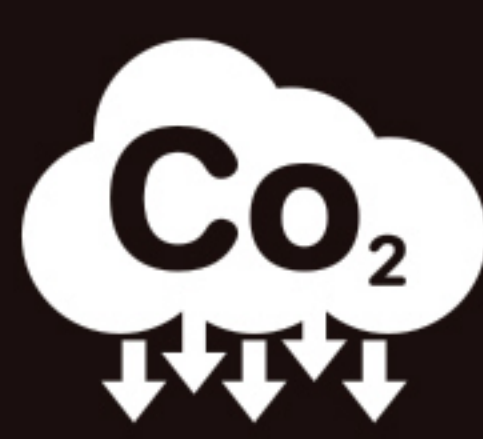
Wood Chip

B I O C H A R
FOR PEOPLE & THE PLANET

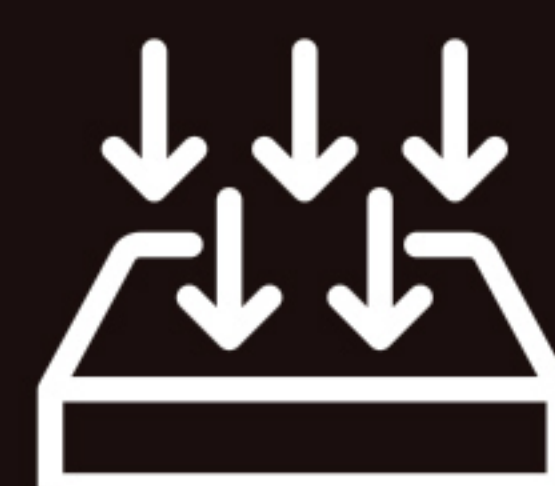
**BIOCHAR
APPLICATIONS**



**Soil Enhancement
& regeneration**



**Cement & Concrete
Decarbonization**



**Industrial Process
use & absorbents**



**Animal feed
& litter management**



PROJECT CASE STUDIES

Jalgaon, Maharashtra, India 2025 Green Energy | Industrial Biochar & Steam Generation Project

Challenge:

Utilize agricultural residues sustainably while reducing fossil fuel dependence.

Solution:

50 TPD PG2200 Biomass Gasification System with multi-feedstock capability- mango seeds, corncob, cotton stalk, bamboo, & wood chips.

Impact:

Approx. 12 TPD biochar production & renewable syngas for steam generation. Supports circular biomass utilization and reduction of peat moss usage in agriculture.

Hydrabad, India 2025 Decarbonization of Cement Industry | Commercial Biochar Production Project

Challenge:

Manage invasive woody biomass while creating long-term carbon sequestration solutions & process heat.

Solution:

50 TPD PG2200 Biomass Gasification System using Prosopis Juliflora as feedstock for biochar production.

Impact:

Durable biochar for soil application & carbon removal. Supports land restoration, rural biomass economy, & long-term carbon sequestration.

Ivory Coast, Africa 2025 Industrial Decarbonization | Green Energy Project

Challenge:

Utilize Deoiled Cashewnut Cake (DOC) sustainably while reducing fossil fuel dependence.

Solution:

Advanced Biomass Gasification System for biochar & syngas production.

Impact:

Biochar for soil amendment & metallurgical carbon applications. Syngas utilized for steam & power generation, supporting industrial decarbonization & circular biomass utilization.

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