



### Different Raw Materials Can Get Different Biochar



## Pyrogreen Energy

Wuxi Powermax Renewable Energy Technology Co.,Ltd. Wuxi Teneng Power Machinery Co., Ltd.

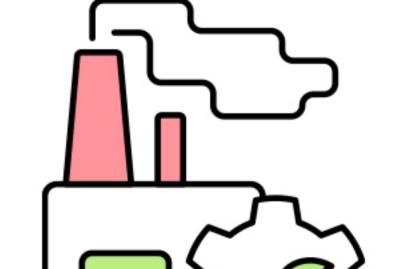




SGS

www.powermaxgasifiers.com

www.pyrogreen-energy.com



### FILLING MATERIAL IN PRODUCTION

SOIL ADDITIVE

growth.

As a soil additive, biochar can improve

soil structure, increase soil fertility,

improve soil water and fertilizer reten-

tion capacity, and promote plant

In the field of metallurgy and casting, the biochar can be used to cover on the surface of the liquid steel and iron to reduce the radiation, convection and thermal loss.



#### FEED ADDITIVE

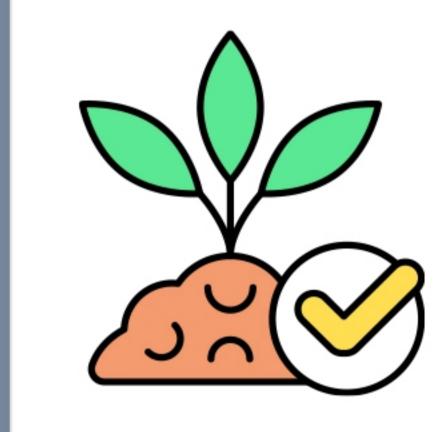
As a feed additive, biochar can improve the digestion and absorption capacity of animals, improve intestinal health, reduce ammonia emissions, and promote animal growth.

# BIOCHAR & BIOCOAL SOLUTION



Pyrogreen - Biomass Carbonization/Torrefaction Solution

"Biochar, Green Energy, a Carbon-reduced Future."



### BUILDING MATERIAL **ADDITIVE**

As a building material additive, biochar can be used to prepare environmentally friendly concrete, bricks and other building materials.



# The hazards of continuous increase of CO,

Excessive accumulation of carbon dioxide (CO<sub>2</sub>) in the atmosphere is a major cause of global warming and climate change. The burning of fossil fuels, deforestation and industrial production have led to significant increases in carbon dioxide levels, causing a range of adverse effects such as rising temperatures, extreme weather events and ecosystem damage.

Global carbon dioxide (CO<sub>2</sub>) emissions from energy combustion and industrial processes1 grew 0.9% or 321 Mt in 2022 to a new all-time high of 36.8 Gt.

To combat these effects, carbon from the atmosphere must be actively removed.





# Pyrogreen's biomass energy conversion technology can serve as a solution to the current problem.

Pyrogreen Energy is a leading company in the manufacturing of eco-friendly carbonization & torrefaction systems and providing biochar & biocoal solutions for the recycling of biomass residuals. Our mission is to create and deploy biorenewable technologies that enhance soil fertility and combat climate change through CO, sequestration.

We support our clients in making use of biomass waste, boosting efficiency, and generating extra revenue while simultaneously reducing carbon emissions.



### Pyrogreen's solution

As a leader in advanced thermal processing systems, Pyrogreen provides custom rotary kilns carbonization system and custom screw conveyor carbonization system for the production of biochar from a variety of sources. Sometimes referred to as torrefaction, the pyrolysis of biomass into a high quality biochar product is a technical endeavor, requiring advanced knowledge of thermal processing principles. Pyrogreen process experts can work with you to design this system around your unique source of material.

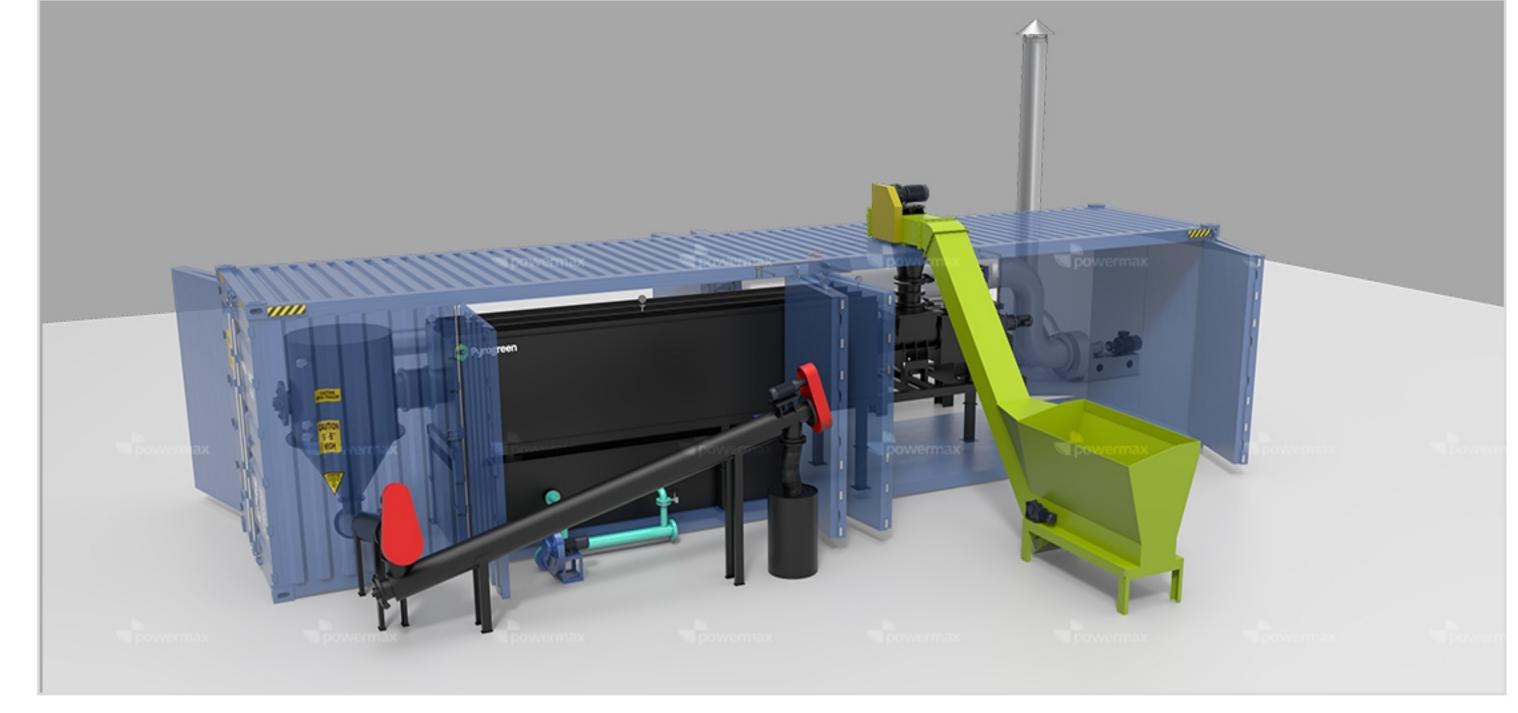
#### Advantage:

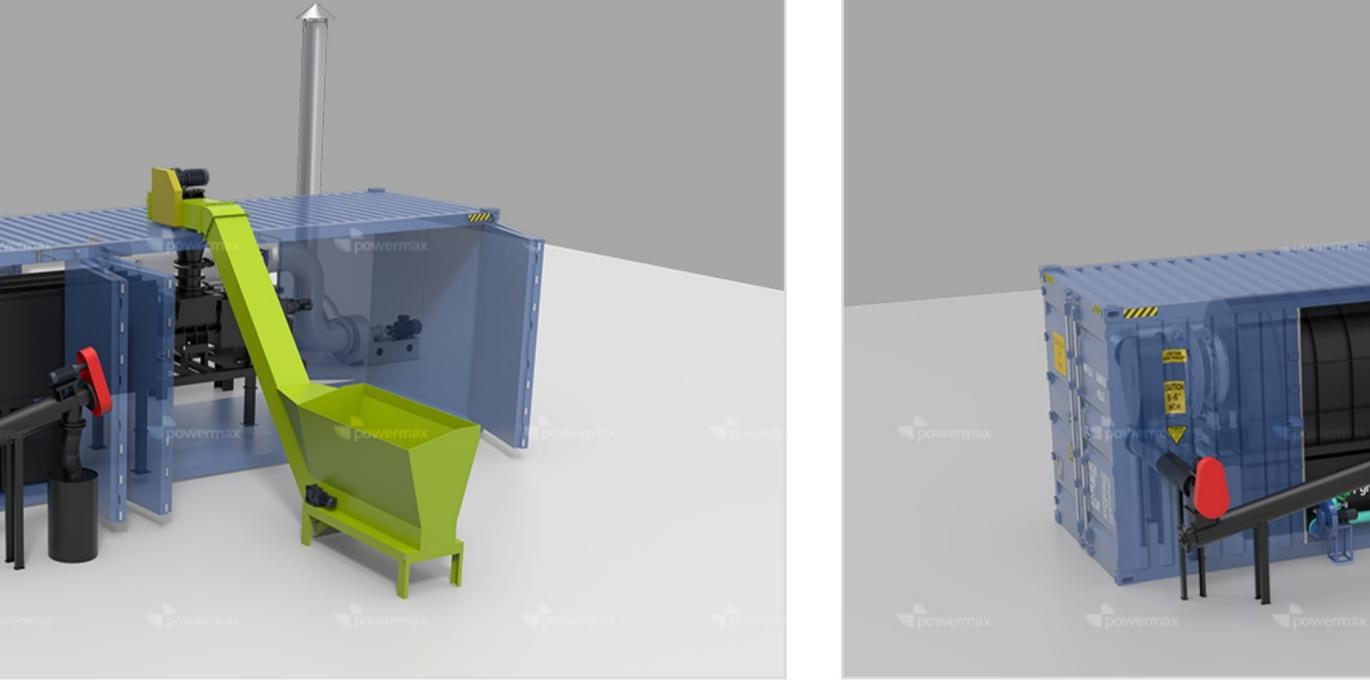
- ① Modular Concept, easy transportation and ④ Extremly Low NOx, CO, Particle Emission. installing.
- ② No tar and liquid waste production.
- ③ Fully Automation.

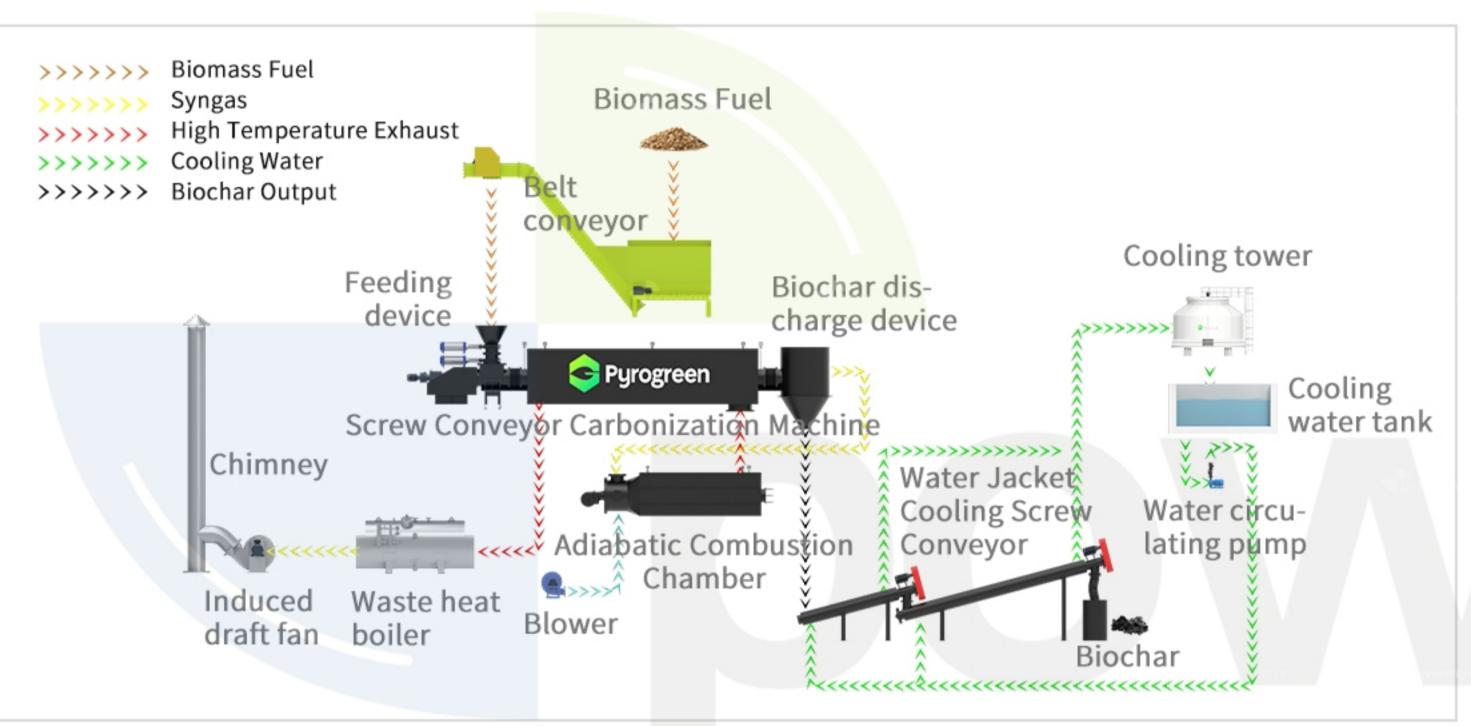
- High thermal efficiency and high biochar
- (5) quality and quantity production.

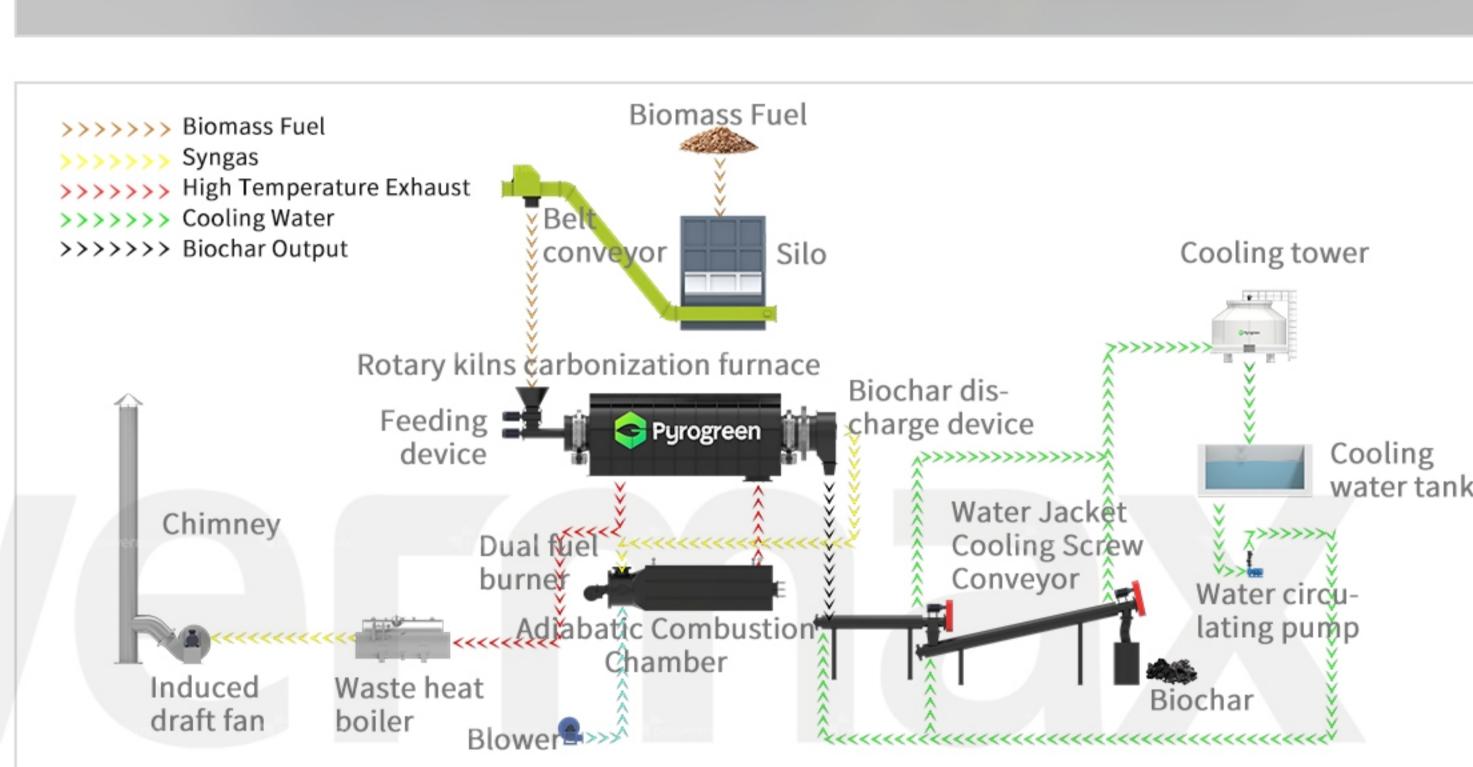
#### Screw Conveyor Carbonization/Torrefaction System

#### Rotary Kilns Carbonization/Torrefaction System









Biomass Screw Conveyor Carbonizer					
Model	BSCC 1000	BSCC5000			
Feed Rate	1m³/h(300kg)	5m³/h(1500kg)			
Footprint(L*H)	16m*10.5m	21m*11m			
Working Mode	Continuous				
Feed Requirements	Size≤20mm(5-8mm is optimal), MC≤15%				
Construction	Indirect Heating Screw Conveyor Type				
Control Mode	PLC Control System				
Material	SS310S+SS304				
Pressure	Micro Nega	Micro Negative Pressure			
Heating Fuel	Diesel, natural gas, heavy oil,etc				
Heating Mode	Indirect Heating				
Noise(dB)	≤80				
Cooling Mode	Circulating Water Cooling				

Biomass Rotary Kilns Carbonizer							
	owermax						
Model	BRKC600	BRKC1000	BRKC1500	BRKC3000	BRKC5000		
Feed Rate	0.6m³/h(200kg)	1m³/h(300kg)	1.5m³/h(500kg)	3m³/h(1000kg)	5m³/h(1500kg)		
Footprint(L*H)	14m*10.5m	15m*10.5m	16m*10.5m	17.5m*10.5m	19m*10.5m		
Working Mode	Continuous						
eed Requirements	Size≤50mm, MC≤15%						
Construction	Indirect Heating Rotary Kilns Type						
Control Mode	PLC Control System						
Material	SS310S+Carbon Steel						
Pressure	Micro Negative Pressure						
Heating Fuel	Diesel, natural gas, heavy oil,etc						
Heating Mode	Indirect Heating						
Noise(dB)	≤80						
Cooling Mode	Circulating Water Cooling						
Rotation Mode	External Gear Rotation						