



# BIO CARBON INTERNATIONAL

Sustainable Carbon for a Healthy Planet

[www.biocarboninternational.com](http://www.biocarboninternational.com)

**Bio Carbon Production Plant  
Investment Presentation**

**(Round 1)**

**Bio Carbon International is focused on bio carbon production and technology**

**Our goal is to be the primary producer of bio carbon for all industries and help mitigate climate change through commercial and charitable projects focused on sustainable agriculture and land restoration**

**Utilizing waste biomass from timber and agriculture, we are able to produce quality bio carbon products on an industrial scale. Our process is low energy, sequesters CO<sub>2</sub> and prevents emissions of methane and other harmful greenhouse gases from decaying biomass**

**We have licensed patents and technological support for the industry's highest capacity and most efficient production process**

**We are seeking to build and operate plants in North America, Europe, Africa, South America, and Asia**

**We provide the opportunity to invest in a lucrative business that has unlimited growth potential, and will help save the environment from the devastating effects of global warming**



**Who is Bio  
Carbon  
International?**





## Global Issues

The world has lost a third of its arable land due to erosion or pollution in the past 50 years <sup>1</sup>

24 billion tonnes of fertile soil and 12 million hectares of productive land are lost each year <sup>2</sup>

We emit over 43 billion tonnes of CO2 each year <sup>3</sup>



## Global Coal Energy Demand

8 billions tonnes of coal are burned around the globe every year <sup>4</sup>

37% of global electricity is generated by burning bituminous coal <sup>5</sup>

Coal fired power plants are continuing to be built in Asia despite being phased out in other regions <sup>6</sup>

Bio carbon can be used as a partial or full replacement for fossil coal with 20 x less ash, same BTU, and carbon neutral, with no additional infrastructure costs.



<sup>1</sup> <https://www.worldwildlife.org/threats/deforestation-and-forest-degradation>  
<sup>2</sup> <https://www.weforum.org/agenda/2015/06/how-can-we-fight-desertification>  
<sup>3</sup> <https://www.theworldcounts.com/challenges/climate-change/global-warming/global-co2-emissions/story>

<sup>4</sup> <https://www.forbes.com/sites/startswithabang/2017/09/20/how-much-fuel-does-it-take-to-power-the-world/>  
<sup>5</sup> <https://www.worldcoal.org/coal-facts/coal-electricity/>  
<sup>6</sup> <https://oilprice.com/Latest-Energy-News/World-News/China-Started-More-Coal-Plants-Than-The-Entire-World-Retired-In-2020.html>

## Waste Biomass



### Supplied from:

- Existing waste wood piles
- Waste from forestry industry
- Driftwood
- Agricultural waste
- Food waste

## Plant



- 1 plant can produce 360,000 tonnes of biocarbon per year:
- Sequestering 2.2-3.5 tons of co2 / per ton of bio carbon (dependent on end use and product)
  - Rate of 45 tonnes/hr of each 3 torrefier plant

## Biocarbon

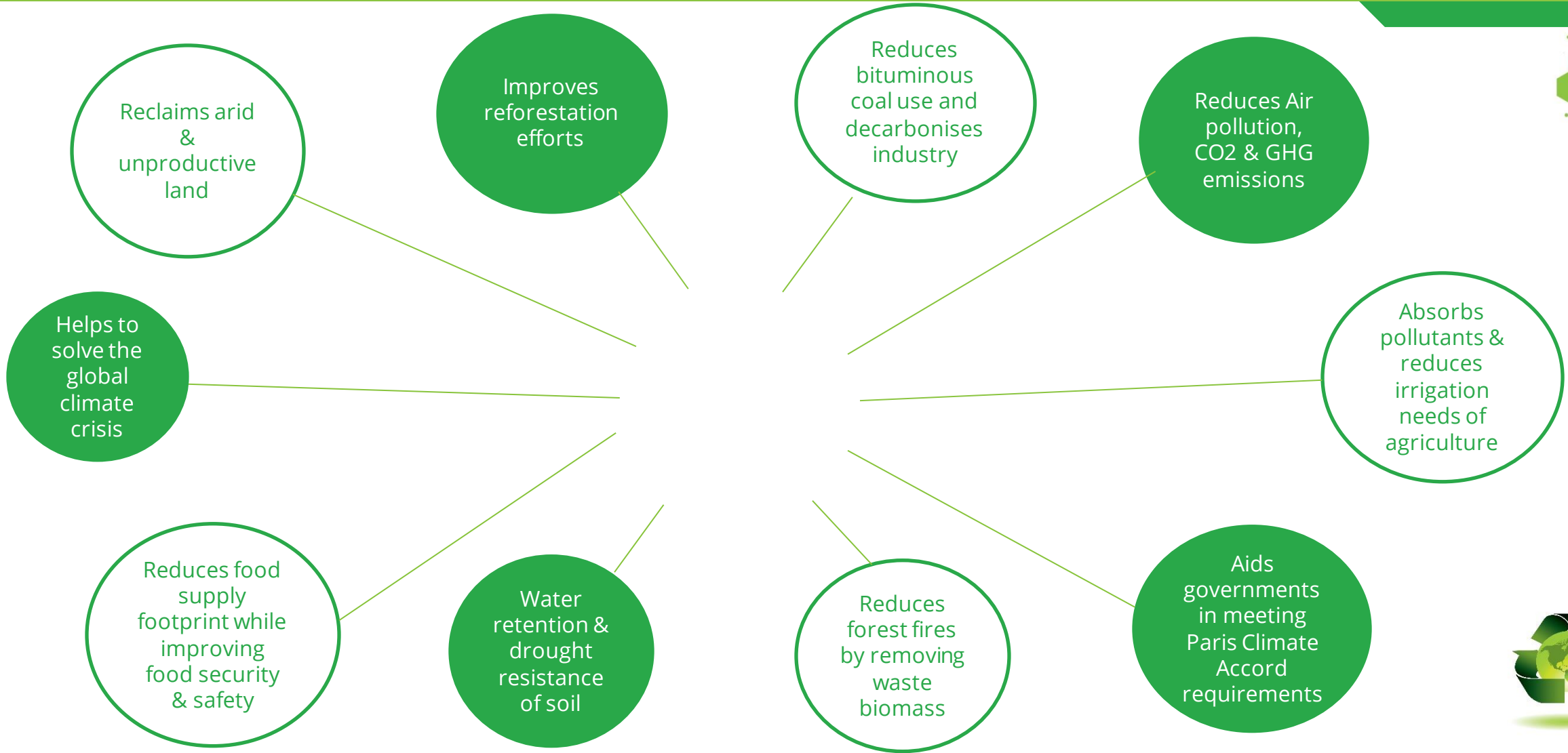


### Products:

- Thermal Bio Carbon
- Metallurgic Bio Carbon
- Biochar
- Terra Preta Mix
- Activated Charcoal



# THE ENVIRONMENTAL BENEFITS OF BIO CARBON



# BIO CARBON INTERNATIONAL CORE PRODUCTS

[www.biocarboninternational.com](http://www.biocarboninternational.com)



**THERMAL  
BIO CARBON**

For use in coal fired power plants as replacement for fossil coal. Same BTU value, lower emissions and ash content

Used in steel and cement manufacture. Cost competitive replacement for Met coal

**METALLURGIC  
BIO CARBON**



**BIO CHAR ,  
BIO CARBON AG  
TERRA PRETA,**

Used alone, or in soil mixes. Multiple specialty biochar applications and specifications available.

Used in water filtration, cosmetics, medicine, and many more industries

**ACTIVATED  
CHARCOAL**





- ✓ Our thermal bio carbon has the same BTU value as fossil coal and significantly higher MJ/KG than the competing biomass energy alternatives currently used
- ✓ It can also be stored, transported and ground directly with fossil coal (All the convenience and efficiency of coal without the emissions)
- ✓ Biomass pellets and wood chips also require additional storage and transportation costs due to fire risk, often also requiring additional infrastructure or filter cleaning in the power plants





## REDUCING GHG EMISSIONS



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Each bio coal plant producing up to 360K tonnes /year will reduce GHG emissions by 792K tonnes of CO<sub>2</sub> by displacing fossil coal

The GHG emissions are further reduced when production is for agricultural purposes and not utilised in power, steel, or cement plants

When utilised as a soil enhancement (biochar, or terra preta) the 360K tonnes of bio carbon reduces GHG emissions by 1.25 million tonnes of CO<sub>2</sub>

In addition to CO<sub>2</sub> reductions, our process involves a gas loop that utilises the methane released during the drying process as fuel for drying. Thereby mitigating the methane released during decay.

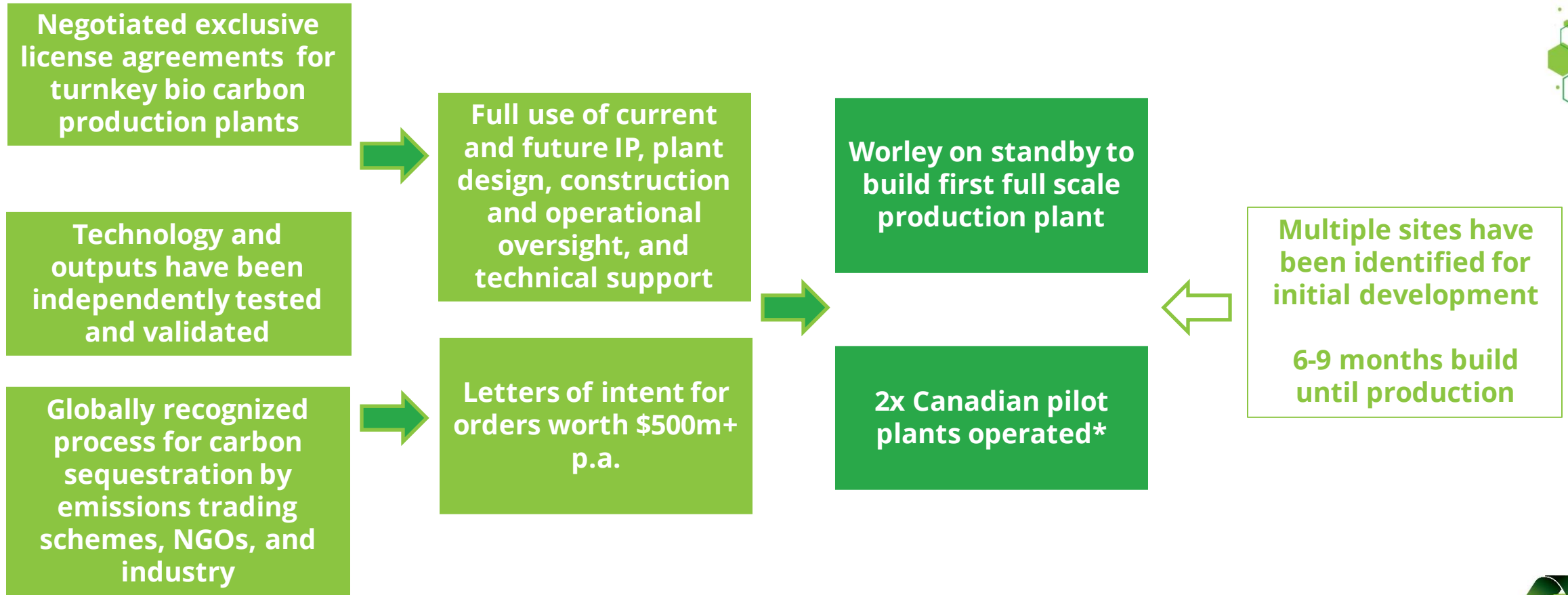
Biochar is also now been used as a livestock feed that reduces their methane emissions

Our goal is to link production to a blockchain that will be able to track where product is allocated as well as the associated carbon credits or allowances tied to the product. Tokenisation and digital carbon trading markets to follow.



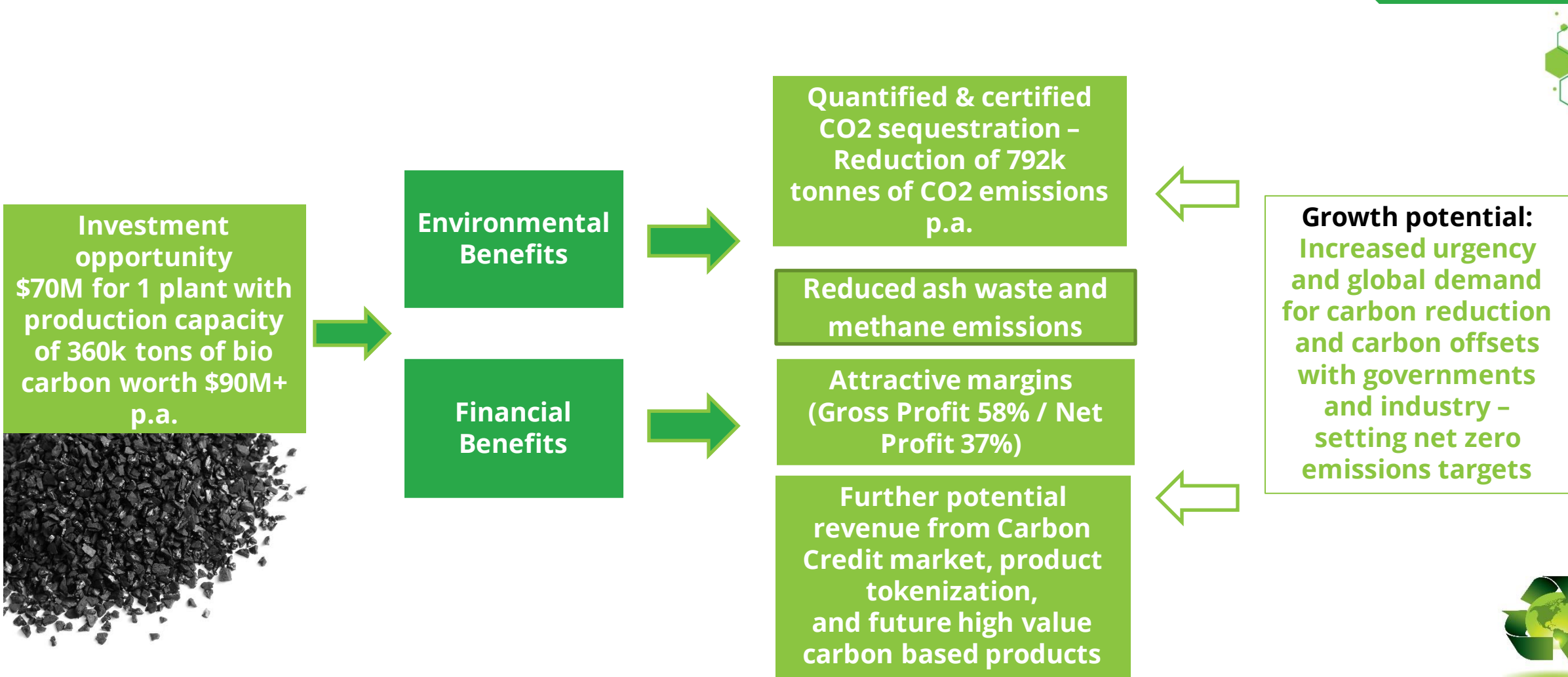


# MILESTONES



\*Full scale single torrefier demo plant was run at production rate of 12 tons per hr. Additional lab scale torrefier used for material testing, and optimization testing.





# BIO CARBON INTERNATIONAL INVESTMENT SUMMARY

- ✓ Turnkey bio carbon production plants. W LOI'S for product
- ✓ \$90million+ USD annual revenue per plant w low opex
- ✓ Minimum investment \$70 million USD / plant as primary investor (Plant, site, fibre, opex)
- ✓ World's highest annual bio carbon production capacity of 360k tonnes per plant
- ✓ Biotech, cleantech, agtech, renewable energy, fintech in one project
- ✓ Carbon Offset investment and ESG investment friendly
- ✓ Products for decarbonization of energy, construction, and agriculture
- ✓ 58% Gross profit , 37% Net profit
- ✓ Scalable to 100's of plants globally (5 plant plans available)



## Additional Funding Options

- ✓ Finance agreement
- ✓ Long term production contract
- ✓ Guaranteed percentage of sales over set period
- ✓ Dedicated plants to produce bio carbon for clients
- ✓ Carbon Offset investment and ESG investment
- ✓ ICO / IEO / Smart contracts for secured investment



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