



PACCHAR
BIOCHAR SOLUTIONS

A Biochar Startup journey in Ecuador

Carlos González
Co-founder and CEO
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One man's garbage is another man's treasure

- Traditionally, agricultural and forestry residues are burnt or left to decay, releasing GHG and affecting soil's health.
- **Pyrolysis** and **Biochar** can transform these residues into soil regeneration, climate action and social benefits.





Biochar: ancestral solution for modern problems

- Amazonian dark soils (*terra preta do indio*) were man-modified by adding carbon as early as 3.000 BC.
- Biochar is the modern terra preta, a charcoal-like material used to **restore soil's health and boost crop productivity.**
- Biochar's resistance to decay **sequesters carbon for 100+ years.** It's scientifically validated as an outstanding **durable carbon removal.**



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DESCENTRALIZED **ARTISAN PYROLYSIS**

- Transportable and simple to operate.
- No electricity or fuel required.
- **Logistics and biomass moisture** content are critical.
- Can be certified for **carbon sinks**, a new revenue stream.



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Education on *biochar* and *soil health*

- Enable farmers to produce, mix and apply biochar by themselves.
- Education on soil health indicators and regenerative management.
- Integrated to agro-exporters sustainability programs.





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BIOCHAR CARBON REMOVAL (BCR)

- Biochar will stay the soil for 100+ years
- 1 Ton of biochar removes about 2 Tons CO₂e
- BCR can be scientifically calculated, objectively verified and market-valued
- In 2024, biochar was responsible for 86% of long-term carbon removals
- Global voluntary carbon market (VCM) was worth USD \$12B by Jan 2026



Roadmap 2026: Tech upgrade & certification



Retort Kiln: **Higher capacity** closed pyrolysis system.

New byproduct: **wood vinegar**



**ARTISAN
C-SINK**

Certification for
Biochar Carbon Sinks

New revenue stream

Our Stakeholders

Agri Tech



Governments



Academia



Multilateral Cooperation



Corporations





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¡Let's put carbon
back in the soils!
www.pacchar.com

