



HIPOINT ENERGY

CLEAN ENERGY FOR A CLEAN EARTH

Waste nothing. *Power* everything.

One waste stream becomes fuel, biochar, and carbon credits.
On site, off the grid, and anywhere a truck can reach.

— HYBRID THERMAL BIOMASS CONVERSION • HTBC —

3 tonnes

CROP WASTE / DAY

3

FINISHED OUTPUTS

Off-grid

RUNS ON ITS OWN FUEL

3–5 yr

SIMPLE PAYBACK

Some machines arrive exactly when the world *can no longer afford* to be without them.

The world is drowning in agricultural waste. Every year, growers generate billions of tonnes of crop and plant waste that rots in landfills, burns in open fields, and leaches nitrogen and phosphorus into watersheds. That is not an inconvenience. It is a carbon catastrophe in slow motion, a liability that costs producers money, costs governments enforcement, and costs the planet stability it cannot get back.

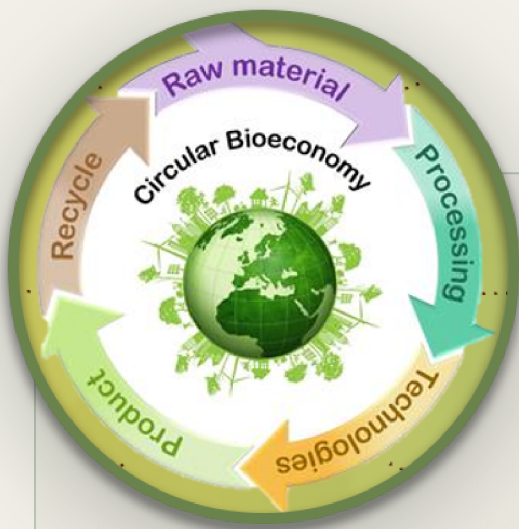
Left alone, that organic material releases methane, generates PM2.5, destroys aquatic ecosystems, and squanders the sequestration potential every tonne of biomass carries inside it.

Billions of tonnes. *Every year.*



Organic waste in. *Diesel, biochar, and carbon credits* out.

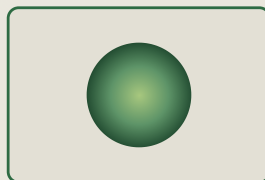
HiPoint Energy builds a proprietary Hybrid Thermal Biomass Conversion (HTBC) unit that turns crop waste into alternative diesel and premium biochar. Feedstock goes in one end. Three things of real value come out the other, with carbon sequestration stacked on top.



FEEDSTOCK
Crop waste • straw • stalks



THE AUGERON CORE



Directly fired • oxygen free • 500–700°C

Alternative Diesel

570–760 L / day • 173,458 L / yr

Premium Biochar

1.8 tonnes / day • CarbonLock

Carbon Credits

1,139 t CO₂e / yr • verified

CONTAINER-SCALE • TRAILER-MOUNTED • REPORTS THROUGHPUT & OUTPUT OVER THE NETWORK
SIZED FOR ~300-HECTARE FARMS (500–750 ACRES)

One waste stream. *Three* products, plus optional power.

● ALTERNATIVE DIESEL · HPE RD

Drop-in. No engine changes.

Built to match conventional diesel on BTU, viscosity, flash point, and cetane, confirmed to BS EN 590 diesel standards. Every tractor, generator, pump, and transport vehicle runs on this fuel already. They just don't know it yet.

YIELD 570–760 L / DAY · 173,458 L / YR · FEEDS THE UNIT'S OWN GENERATOR

● PREMIUM BIOCHAR · CARBONLOCK

Holds water. Locks carbon.

High-temperature biochar built for permanence: aromatic carbon that resists decomposition for centuries. A working soil amendment that holds water, cuts irrigation demand, and stores carbon while it works. Mean residence: 500–2,000 years.

YIELD 1.8 TONNES / DAY · 582 TONNES / YR · CUTS IRRIGATION DEMAND UP TO 80%

● CARBON CREDITS · VERIFIED

Paid for the carbon, twice.

Every run is logged and audit-ready, so the carbon locked into the biochar and the emissions avoided by the fuel both convert into verified credits you can sell — stacked with RTFO certificates (RTFCs) and the dRTFC development premium. The credit documentation (PDD) begins at project kickoff, well before the unit ships.

1,139 TONNES CO₂e / YR · RTFO CERTIFICATES STACKED ON TOP

● ELECTRICITY · OPTIONAL

Power when it pays to.

The on-board 15–25 kW generator runs on the unit's own fuel and powers the site off-grid. Whatever the unit does not need can be exported to the grid, an option, not a stacked fourth revenue stream. Because it comes from the unit's own fuel, it competes with diesel economics rather than adding to them.

15–25 kW · ~358,800 kWh / YR · SURPLUS BACK TO THE GRID

Waste in one end. *Product* out the other.

01

Sized & dried

Feedstock is cut to size and dried so it feeds the Augeron Core at a steady, clean rate.

02

Into the CORE

The biomass enters the directly heated reactor, oxygen-starved inside and held at 500–700°C. No air, no open flame.

03

Syngas takes over

The unit fires up on methane or propane; once at temperature, its own syngas fuels the process, reused as heat in a sealed flare box.

04

Fuel & carbon out

The heavy fraction distills into fuel, the solids leave as biochar with almost no tar, ash or flame. Every run is logged.

THE ENGINE INSIDE

Every unit is built around the proprietary Augeron Core (patent pending), our own reactor with a mechanical oxygen seal: a progressive-pitch auger that locks out air with no compressor and no rotary valves. That is critical to finishing fuel cleanly and producing stable, high-permanence biochar in a single pass. The core is directly heated, firing up on methane or propane until its own syngas takes over; electric heating is reserved for stationary sites where power is viable.

— WHERE THE COMMERCIAL VALUE IS DIFFERENT

GASIFIER	Makes power from syngas. No sellable fuel, only high-ash char.
BIOCHAR RIG	Makes premium biochar and sells the credits, but no fuel.
FUEL SKID	Makes raw bio-oil a refinery still has to upgrade.
PYROLYSIS UNIT	Makes biochar and credits, but its bio-oil needs upgrading.
HIPOINT UNIT	Pumpable fuel, sellable carbon, and thousand-year biochar. One pass, off-grid, no refinery.



THE DIFFERENCE

**Finished, pumpable fuel.
Sellable carbon. Thousand-year
biochar. *From one machine.***

No separate refinery, no upgrading plant, no second rig. One pass, off the grid, running on its own fuel.

More than one way *to get paid*.

Tipping fees on the waste coming in. Fuel, biochar, and carbon credits going out, with optional power on site. A simple payback in three to five years.

Feedstock processed	2.72 tonnes / day
Alternative diesel yield	570–760 L / day · 173,458 / yr*
Premium biochar yield	1.1–1.9 tonnes / day · 582 / yr*
On-board generator	15–25 kW
Site footprint	~1,200 m² site
Simple payback	2.7–4.8 years
Premium support & setup	BOT build-operate-transfer

* Annual figures are for the baseline reference crop. Based on individual crop, numbers may vary considerably; yields confirmed by laboratory testing before contract.

SALES & OFFER STRUCTURE

- Funder / ownership group.** Outright, shared-revenue, or UK and international grant-subsidised structures. HiPoint builds, operates and transfers.
- Support & maintenance.** We train your crew to support the smooth running of the unit, backed by a year-round maintenance contract and AI efficiency monitoring.
- Feedstock — tested before contract.** Straw, stover, green waste and dry manure-fibre blends, run under controlled conditions. No guessing, no field demo.
- Offtake options.** HPE and its partner network initiate the PDD carbon platform, offtake distribution and credit trading.

Premium isn't the price. It's *everything* that comes with it.

Low-cost units win on the sticker and leave you alone with setup, operations, and off-take. We built the offer around what happens after the unit lands on your pad.

BEFORE YOU BUY

Real crop testing

We run your feedstock under controlled conditions and come back with what it will actually yield. No guessing, no stripped-down field demo.

AT INSTALL

Commissioning & training

We set the unit, dial in the feed, and train your crew to run it. Tiered access keeps operation disciplined.

THE PROMISE

10-year Augeron Core warranty

The Augeron Core is the heart of the unit, and it carries a 10-year warranty. Coverage is confirmed in your contract.

AFTER IT STARTS

Monitoring & optimisation

Remote monitoring catches problems early and lifts yield as feedstock changes, feeding what we learn across the fleet.

EVERYTHING ABOVE

Built to pay back *in three to five years*

We maximize your feedstock with expert testing, train your team for smooth modular unit operation, and activate our PDD carbon-credit and advanced monitoring platform.

*Customer covers carbon-credit approval costs. Annual maintenance and monitoring fees apply. Connection to the distribution and trading network varies by region.

The alchemy is *real*.

For centuries, turning waste into worth was a fantasy. HiPoint Energy has made it ordinary engineering: it transforms agricultural waste, a material with no commercial value and real ecological cost, into clean fuel, living carbon, sequestered atmosphere, and economic opportunity. The chemistry is proven, the yields are quantified, and the carbon permanence is documented in the scientific literature.

The old intuition was right: that value is latent in what we discard. HiPoint Energy has built the instrument of that transformation. This is no metaphor. It is a machine, and the world it enters, short on easy hydrocarbons and running out of time, needs it.

"There is a moment when the problem a technology solves and the world it enters converge so completely that its adoption ceases to be commercial persuasion and becomes civilizational logic."

Ron George

CO-FOUNDER, HIPOINT ENERGY · ECOLOGICAL VIRTUES WHITEPAPER, 2026

See what your waste is *worth*.

We'll model exactly what a HiPoint Energy unit is worth to you: yield, revenue, credits, and payback for your crop and your acreage.

sales@hipointenergy.com



HIPOINT ENERGY
BROCHURE UK

The Augeron Core (patent pending) and Waste nothing. Power everything.™ are proprietary to HiPoint Energy.

Figures are representative and confirmed per feedstock at modeling. © 2026 HiPoint Energy, LLC.