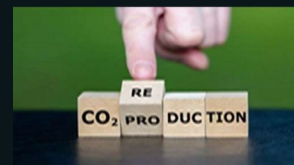


ORE: Decarbonisation That Pays for Itself

Dual climate-tech venture for food & transport sectors

Pre-Seed Raise: £300k

Founders: Aminu Owonikoko (PhD) · Isabel Power (MSc)



Problem

Emissions Are Measured, Not Reduced

- Manufacturers rely on static carbon reports → no operational savings
- Legacy heating, processing & logistics → high emissions + high cost
- Bioethanol feedstocks compete with food → supply-chain risk



23%

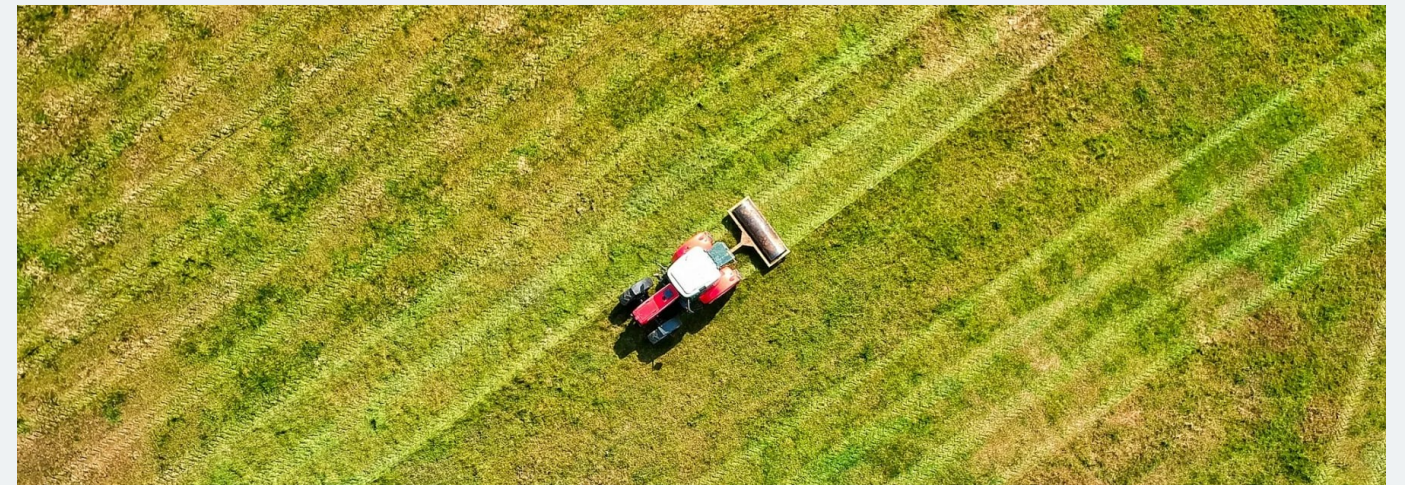
of UK emissions from heating water/indoor spaces (Source: UK Research and Innovation)

Solution

Two Revenue Streams, One Climate Engine



'LCA+' (Life Cycle Assessment PLUS Decarbonisation model): Carbon-intelligence + optimisation → 10–35% cost & emissions reduction



Gasol: Non-food broomcorn ethanol → 70–85% greenhouse gas (GHG) reduction

Integrated model → food + transport decarbonisation



Market Urgency

Regulation Is Forcing Action Now

- Mandatory carbon reporting accelerating
- E10/E85 adoption + Sustainable Aviation Fuel 'SAF' demand (3B gallons by 2030)
- Renewable Transport Fuel Obligation (RTFO) double-counting → premium revenue per litre
- Retailers pushing manufacturers to decarbonise

LCA+ Value Proposition

Decarbonisation That Reduces Costs

10–35%

reduction in energy, waste, water, logistics

Typical savings: £150k–£500k per year

- Built with MINVIRO XYCLE
- Fast onboarding → early revenue





Gasol Value Proposition

High-Margin, Non-Food Renewable Fuel

- No food—fuel conflict
- High cellulose yield → efficient processing
- 100% waste valorisation
- RTFO double-counting → premium decarbonisation value
- Potential to displace 50–80M L/yr of imported ethanol

Analysis of ORE's Competitors

Digital Decarbonisation Competitors

- Normative — strong reporting, weak operational reduction.
- Sphera — enterprise LCA software; expensive, slow to deploy.
- Watershed — compliance-focused; limited manufacturing optimisation.

ORE's edge: delivers 10–35% real reductions, not just reporting.

Overall Competitive Advantage

ORE uniquely combines operational decarbonisation + novel fuel innovation, giving manufacturers and fuel suppliers measurable savings and verified emissions reduction.

Bioethanol/Biofuel Competitors

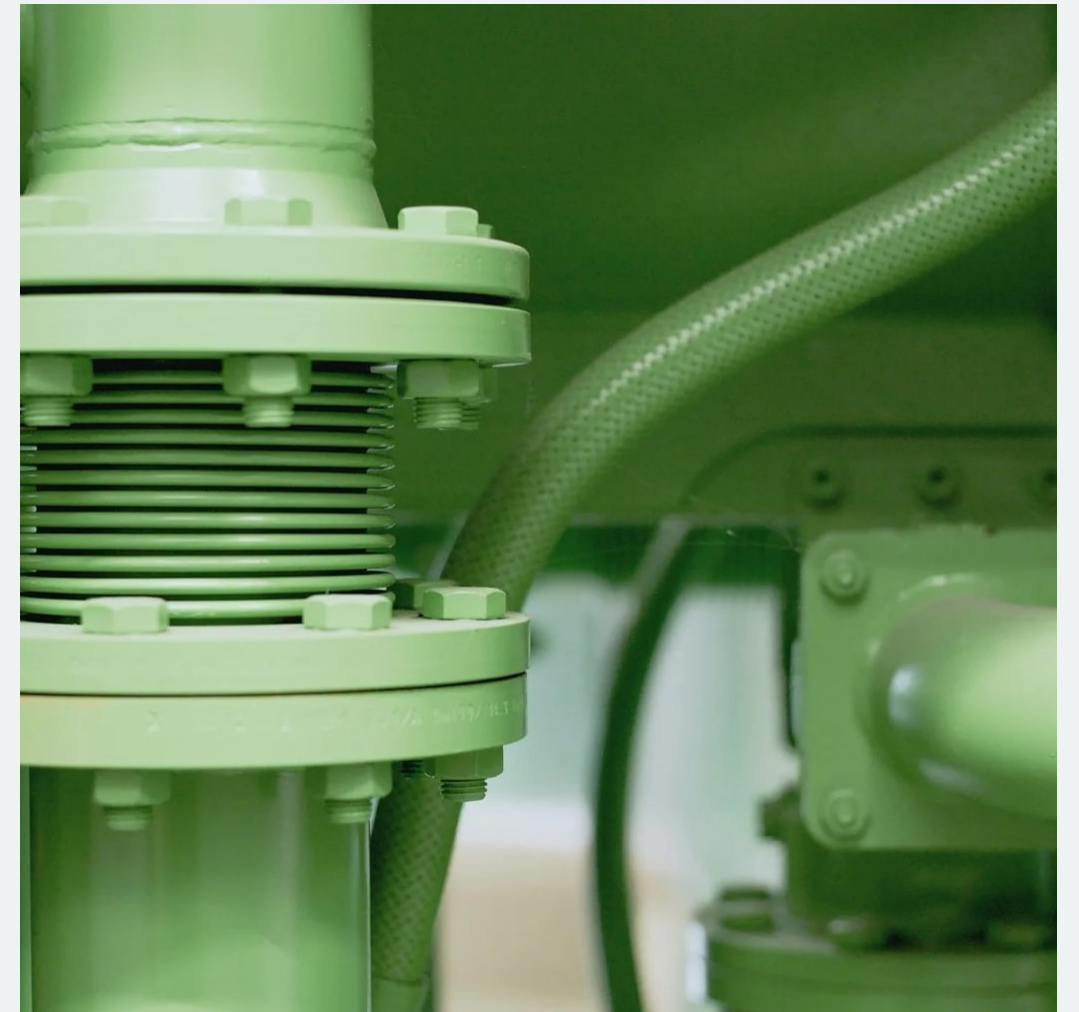
- Crop-based ethanol producers — food-competitive, lower GHG savings.
- Waste-based ethanol — limited feedstock supply; inconsistent quality.
- Imported ethanol suppliers — volatile pricing, sustainability risk.

ORE's edge: non-food broomcorn, RTFO double-counting, 70–85% GHG reduction.

Differentiation

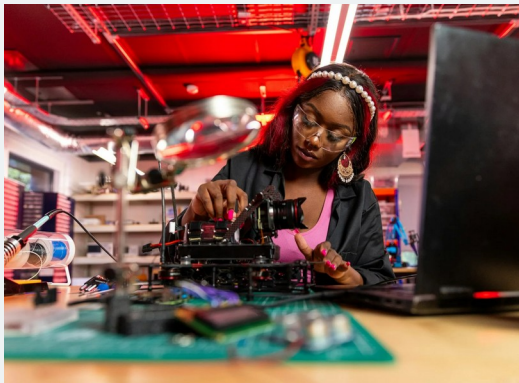
Why ORE Wins

- Competitors measure carbon → ORE reduces it
- Competitors use food crops → ORE uses non-food broomcorn
- Competitors serve one sector → ORE integrates food + transport
- Competitors deliver reports → ORE delivers savings



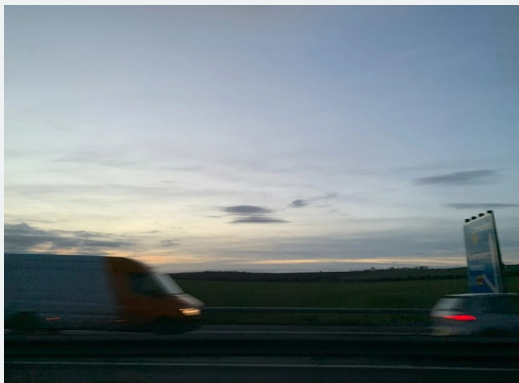
Business Model

Dual Revenue Streams



[1] LCA+

- Subscription + project fees (£20k—£80k)
- Fast onboarding
- Immediate operational savings



[2] Gasol (Bioethanol/Biofuels)

- RTFO certificates
- Fuel sales
- Licensing of processing package

Traction: Commercial Validation

Early traction

- MINVIRO partnership formation
- Munirat Foods Initiative (MFI) Formation to add value to broomcorn seeds
- Published article → inbound interest
- Accepted on: Carbon13, Vestd × HelpBnk, NCTA (Sustainable Ventures x Barclays Eagle Labs), Birmingham Climate Innovation Platform (CIP), NatWest Accelerator Programme.

Industry engagement

- Shortlisted by UKRI for Meet the Buyer Event and presented our innovative ideas to AstraZeneca
- Shortlisted as INNOVATOR startup by Cambridge University's Institute for Manufacturing (IfM) at Open Innovation Forum in Dublin City
- Part of LEC Partners in the USA as a Freelance: LEC is world's largest bioeconomy consulting group with over 150 experts worldwide, covering all aspects of the bioeconomy.
- Shared ORE's proposition at Innovate UK Darlington for EU HORIZON-CL4-2027-01-MAT-PROD-06 & HORIZON-CL6-2026-01-CIRCBIO-07

Technical Proof

Lean, Focused Validation

- Agronomy trials: Langford Bristol (Somerset)
- Precision-compost broomcorn trial ongoing
- *TEA & LCA outperform wheat straw & corn stover
- Early data → higher yield + lower carbon intensity



IP Status

IP package in preparation

- Covers extraction chemistry, pretreatment, processing

Filing planned in

6–10 months

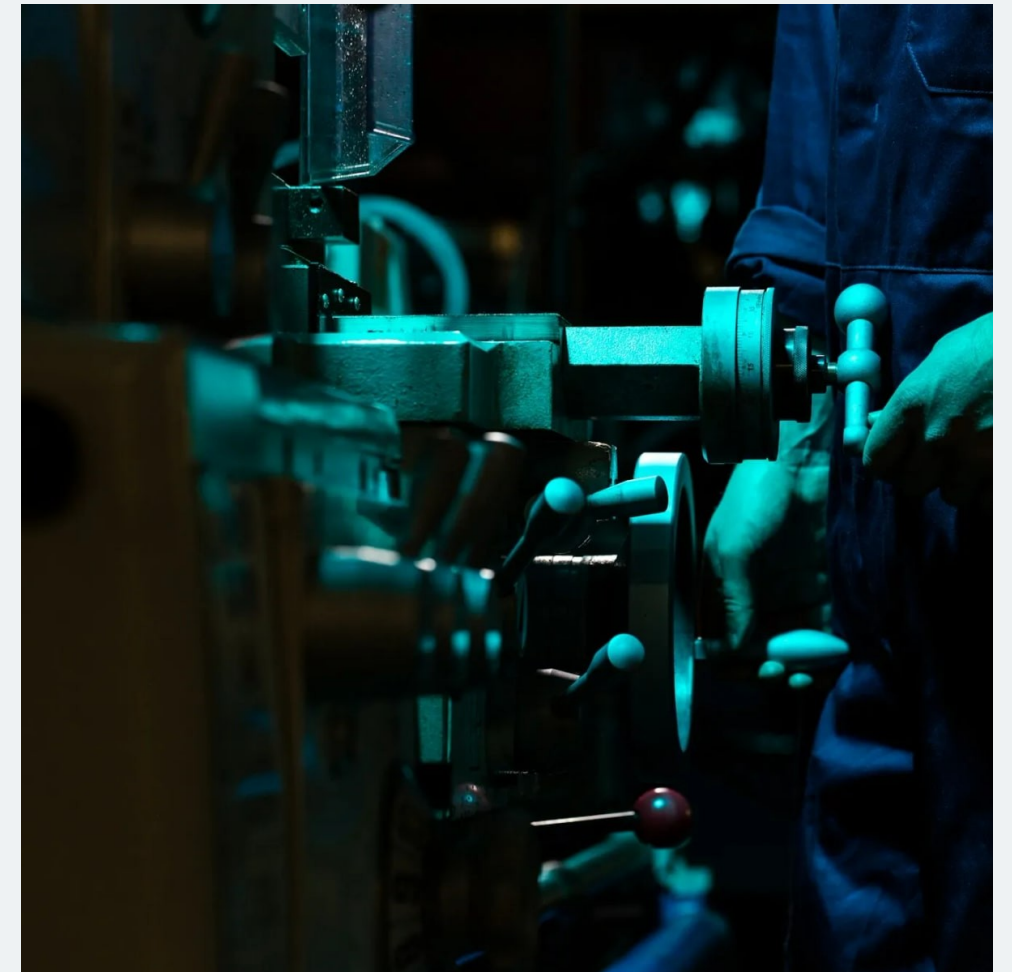
Target geographies: UK/EU



Roadmap

Capital-Efficient 12–24 Month Plan

- 01 Build LCA+ MVP + onboard 1–2 clients
- 02 Expand agronomy trials
- 03 File IP package
- 04 Build Bristol/Avonmouth pilot line
- 05 Complete RTFO validation
- 06 Secure first LCA+ contracts



Funding Ask

Pre-Seed Raise:

£300k



Use of Funds

- LCA+ MVP build
- Agronomy trials
- IP filing
- Pilot demonstration line
- RTFO validation
- Early commercialisation

The Team

Experienced, Complementary Founders



Aminu Owonikoko

(CEO and Co-Founder)

Warwick MSc · Greenwich MPhil ·
Newcastle Australia PhD

UKRI Global Talent

Renewable energy expert

LCA/TEA specialist

Former LSBU/EU HORIZON ENOUGH decarbonisation
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Cyber Security Manager at Tesco

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Call to Action

Join Us in Building Measurable Decarbonisation

- Capital-efficient pre-seed round
- Dual revenue model
- Strong early traction
- Clear regulatory tailwinds

