

Recycle Roots - 1TPH Site EOI - Pioneering Carbon-Negative Innovation

Founded in July 2024 by renewables engineer Jake Payne and waste industry innovator Will Garrard, Recycle Roots develops tech that converts biomass waste into high-value biochar, capturing carbon dioxide and producing renewable heat and power.

Our Technology

We're developing tech that optimizes biochar production, our system is more predictable, easier to operate, safer and cleaner. It delivers higher yields of energy and biochar output than legacy models, converting more waste biomass into higher quality biochar at a lower cost.

Supported By

- Selected by Barclays Eagle Labs x Carbon13 Climate Tech Accelerator
- Applying for £~1.5m Defra Farming Futures R&D Grant in partnership with University of Bath, Recycled Crop Nutrients, UK Centre for Ecology & Hydrology (UKCEH) and Frankimpact

We're Looking for a Food, Farm or Agri-business Site Host

Help us prove the future of clean on-site biomass waste transformation and carbon capture. We are looking for prospective partners to host our commercial scale plants – 1 Tonne per hour of biomass waste input. Our needs are modest:

- 25x25m² space (feedstock store and containerized units on hard standing)
- Grid connection - 3-phase electricity (415V) and access to a water supply (small volumes)
- Feedstock: ~1 tonne per hour / 6000 to 7000 Tonnes per year
- Access to shared welfare (ideal) and parking

What You'll Get in Return

- Rent Paid — For our use of space & services
- An interesting, well-behaved and proactive tenant
- No Cost Biomass Disposal — Up to 24T a day, no gate or haulage fees
- Access to Renewable Heat/Power — Cheaper than grid supply
- ESG & Carbon Reporting Benefits — Credible sustainability gains
- Early Access to Breakthrough Tech — Be a pioneer, not a bystander

Let's Turn Waste Into Wealth – Together.

Interested in hosting the future of low-carbon agriculture and energy?

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