

Waste is only a resource in the wrong place Mahatma Gandhi

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'ERRA CARTA

CLIMAT



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Company Background

- ➢ Based in Swindon, UK
- ➤ Headcount: 26
- ➢ Focus Sectors:
 - □ Water Treatment
 - □ Food Waste
 - □ Agricultural Slurries
 - □ Horticulture
- ➤ Intellectual Property:
 - □ 35 granted patents
 - □ 62 Jurisdictions
 - □ 32 Pending Applications

> Image:

 CCm's deployment at UK's #3rd largest sewage treatment works owned and operated by Severn Trent.



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Basic Process





Sectors





Food Waste













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Paradigm Shift -Wastewater to Resource Recovery





Transforming Biosolids/sludge into fertilisers

Extraction of valuable resources (N & P)

Biochar Stabilisation

I.O. Centre, Radway Road, Swindon SN3 4WH, United Kingdom





CCm's technology impacts Carbon in three ways:

- Capture/Utilization: the direct capture of waste CO₂ during CCm's production process;
- Avoidance: the replacement of high carbon intensity inputs by recovered ones, which produces a large avoidance of primary carbon use; and
- Sequestration/Storage: the retention of robust carbon-based materials within the fertiliser matrix ensuring proven¹ high levels of carbon retention in soil.

The combined action of the Carbon held within the matrix of the fertiliser pellet and the carbonate derived from the captured CO_2 results in the controlled delivery of biogenic nutrients.

Potential Scale of CCm Carbon Impact:

- Deploying 50 standard CCm units each producing 10,000 Tonnes of fertiliser pa.;
- > Removes 1.75 million Tonnes of CO_2e per annum;
- Equivalent of taking approx. 375,000 cars off the road every year².

Sources: ¹Journal of CO2 Utilization (July 2019) - University of Sheffield P3; ²United Airlines





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Data Integrity





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.....to the farmer.....

Same, if not slightly better, crop yields and protein quality

No change to farm infrastructure

Same spreading accuracy

Doesn't pay more for their nutrients

.....and.....

Use at least 20% less Nitrogen for same yield outcomes
Significant soil fertility benefits including Carbon sequestration
Growing "Net Zero" crops are more in demand from retailers and food manufacturers

CCm independent fertiliser field trials – NIAB, WWF, RAU, Velcourt and Harper Adams – cereals and oil seeds at multiple location over the last 7 years generating similar if not fractionally better crop yields and protein quality than commercial fossil-fuel based equivalents.

Scope 1, 2 & 3 Carbon Emissions





Conlechnologie

Head Office & Technology Centre: Unit 9, I.O. Centre, Radway Road, Swindon SN3 4WH United Kingdom

www.ccmtechnologies.co.uk CCmTechUK +44 (0)1865 578 900

pawel.kisielewski@ccmtechnologies.co.uk; +44 7768 361 909



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