

A review of bioenergy in the East of England

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Talk structure



- 1. InCrops Enterprise Hub
- 2. Bioenergy in the region
- 3. The Adapt Low Carbon Group



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 Funded by the European Regional Development Fund and East of England Development Agency to support low carbon innovation and growth in the bioeconomy in the East of England.

The project is managed by InCrops Ltd,
 a spin-out company from the UEA and which
 is part of The Adapt Low Carbon Group.







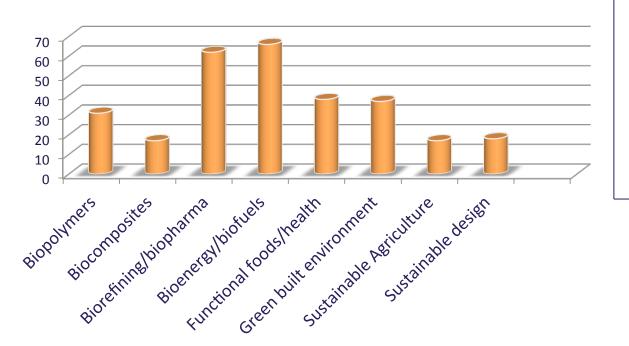
 Regional companies can access up 14 hours of free specialist support for the development, commercialisation and adoption of bio-renewable products, processes and services:







InCrops has supported **over 270 regional** businesses since summer 2008



InCrops clients include:

- Technology developers
- Technology suppliers
- Biomass suppliers
- Manufacturing companies
- Consultancy companies
- Farmers
- Land owners
- Project developers





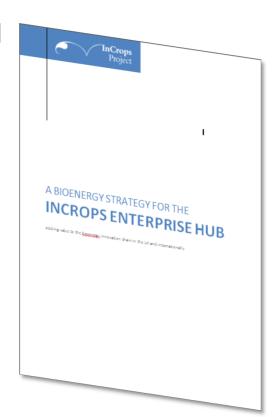
- When clients require technical or scientific support for the development or adoption of new products and processes, InCrops introduces them to academic partners.
- InCrops has facilitated over
 40 industry:academia collaborations
 since summer 2008.







- Key areas for improvement and development and in which the region has considerable expertise:
 - Sustainable production of biomass
 - Biomass conversion processes
 - Returning nutrients to the soil
 - Negative carbon energy
 - Adding value to bioenergy systems







LIGNOCELLULOSIC BIOFUELS: The HOOCH project



- A Defra-funded project on the production of bioalcohols from lignocellulosic residues from the agri-food supply chain.
- A consortium of 14 academic research institutes and universities and industrial partners from different stages of the supply chain.



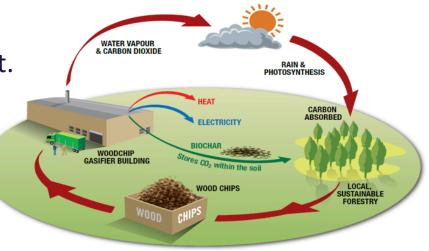


GASIFICATION: UEA Biomass Gasifier

CHP unit capable of producing
 1.4 MW electricity and 2.0 MW heat.

 Feedstock: woodchips from sustainable forestry in Norfolk.

 The plant will also generate up to 1,000 tonnes of biochar per annum.





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PYROLYSIS: The PYREG slow pyrolysis system

- A 500kW modular pyrolysis unit mounted inside a shipping container.
- Annual throughput rate:

 1,000 to 1,200 tonnes of feedstock
 yielding 350 to 400 tonnes
 of biochar and ash.





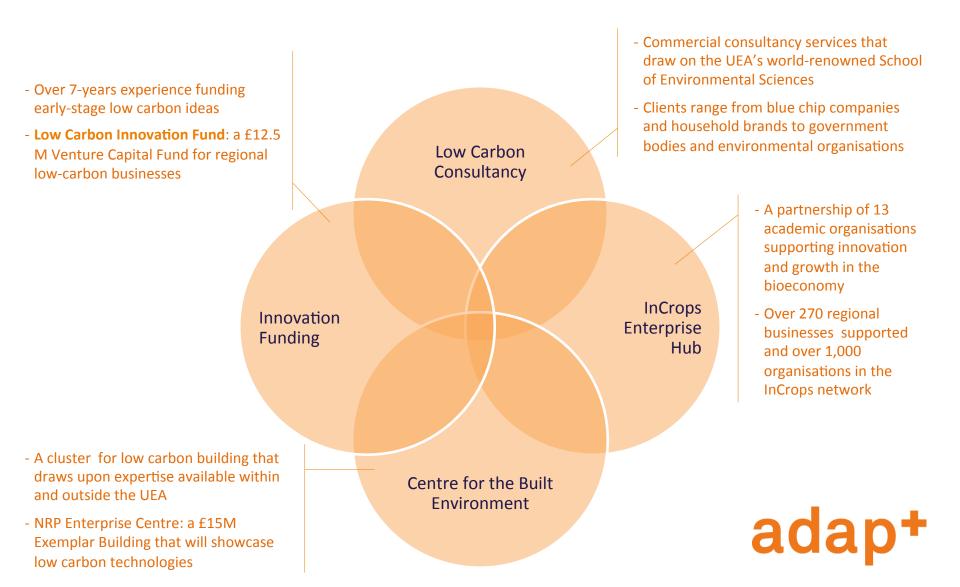


ANAEROBIC DIGESTION: Massive potential in the East of England

- Over 36 stakeholders in the region alone involved in or interested in this area of technology
- 17 AD plants in operation, under construction, under planning process or under concept stage
- 16 technology suppliers and project developers and many others with non-regional addresses operating here



The Adapt Low Carbon Group





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