





Bioenergy



#ETI10







Introduction to the Bioenergy Programme

ETI Strategy Manager - Hannah Evans ETI Programme Manager - Geraint Evans





Agenda



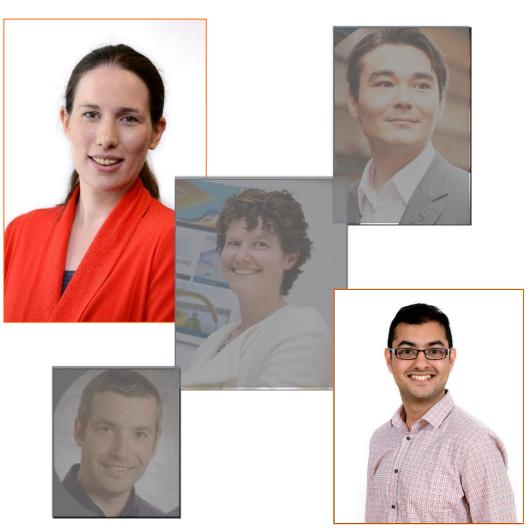
1. Introduction

- Bioenergy Team
- 2008-9 Reflection
- Value of bioenergy in the energy system
- Key questions
- 2. Reflections from Project Participants
 - Ausilio Bauen, E4tech
 - Jeanette Whitaker, Centre for Ecology and Hydrology
 - Kamal Kalsi, Waste Gasification Project
- 3. Key programme achievements and future activities



The Team













2009 – Where were we?



Progress: biofuels Progress: bioenergy Progress: Wastes Assumptions & gaps Issues & concerns Direction System thinking

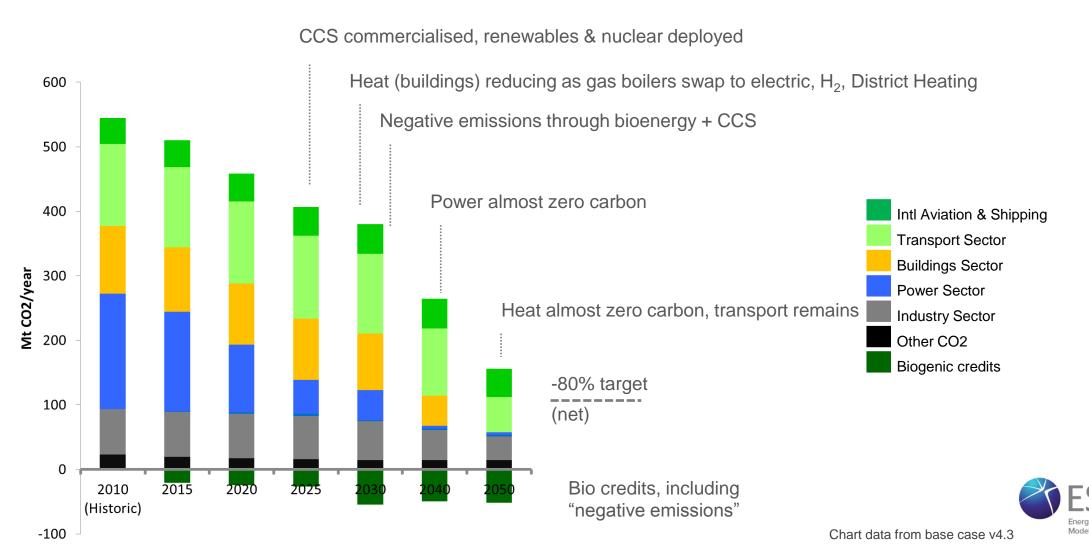
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A route to meeting - 80% CO₂ for the UK



Power now, heat next, transport gradual - cost optimal

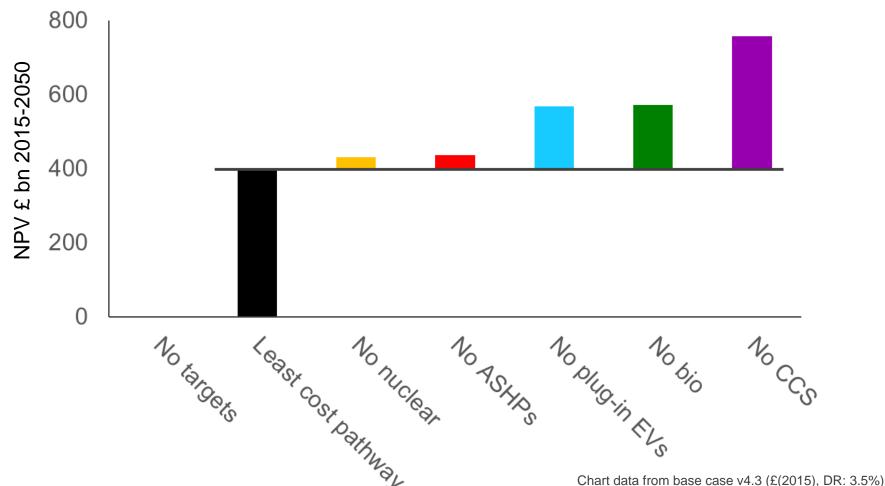




ETI's 'ESME' model indicates an important role for bioenergy and CCS in the UK



Additional cost of delivering 2050 -80% CO2 energy system







Bioenergy Programme – key questions



How much negative emissions could be realised through bioenergy deployment in the UK?

What would be the best ways to use this bioenergy in the future UK energy system?

What are the right combinations of feedstock, preprocessing, and conversion technologies?

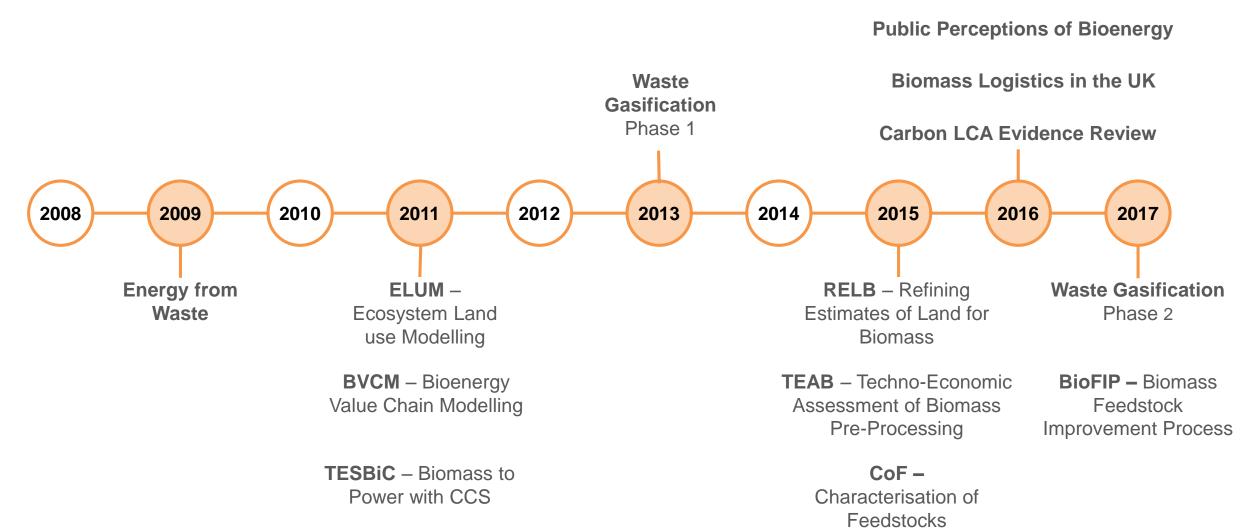
Enabling policy, regulatory and market frameworks.

Understanding public perceptions



Bioenergy Programme











Key Programme Achievements

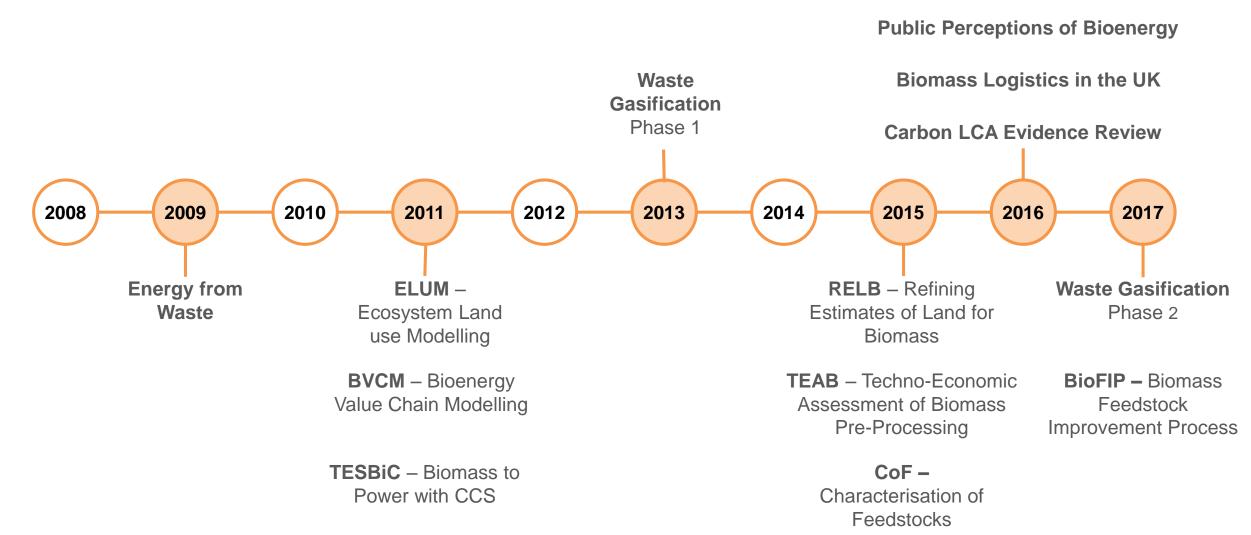
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Bioenergy Programme



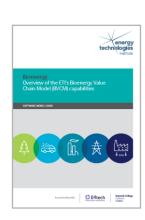




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Bioenergy Programme Impact



Systems Thinking – Best use of Bioenergy

Land Use

Land Use Change

Biomass Feedstocks and Pre-Processing

Identifying resilient technologies:
Gasification

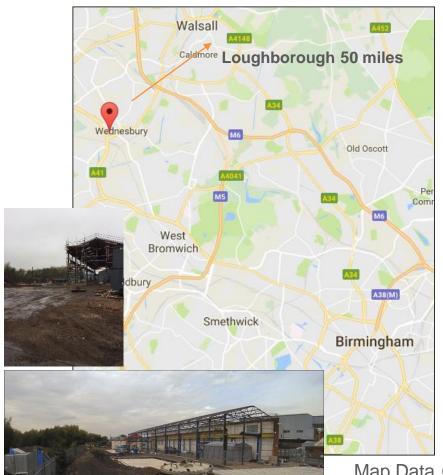
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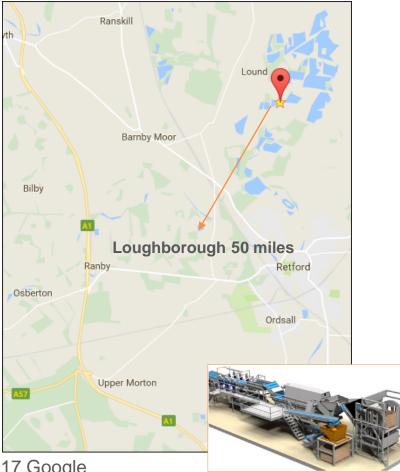
ETI bioenergy – where next?



Waste Gasification Demonstration



Biomass Pre-treatment Demonstration



Map Data @2017 Google



Thank you for listening



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ETI Demonstration Projects







Waste Gasification

...new home for ETI's Strategy and Modelling function



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Speak to our specialists in the Bioenergy exhibition area for more details

