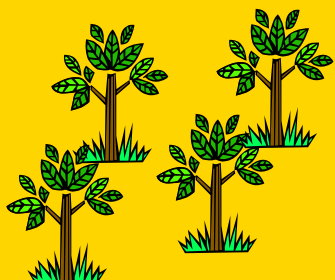




NNFCC



NNFCC Activities

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Fuels and Energy

National Non Food Crops Centre

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About the NNFCC

5 years old with 17 staff.

Bringing the whole supply chain together.

We publish evidence-based documents and run events for all stakeholders.

A strong technology focus, also work one-to-one with industry and retailers.

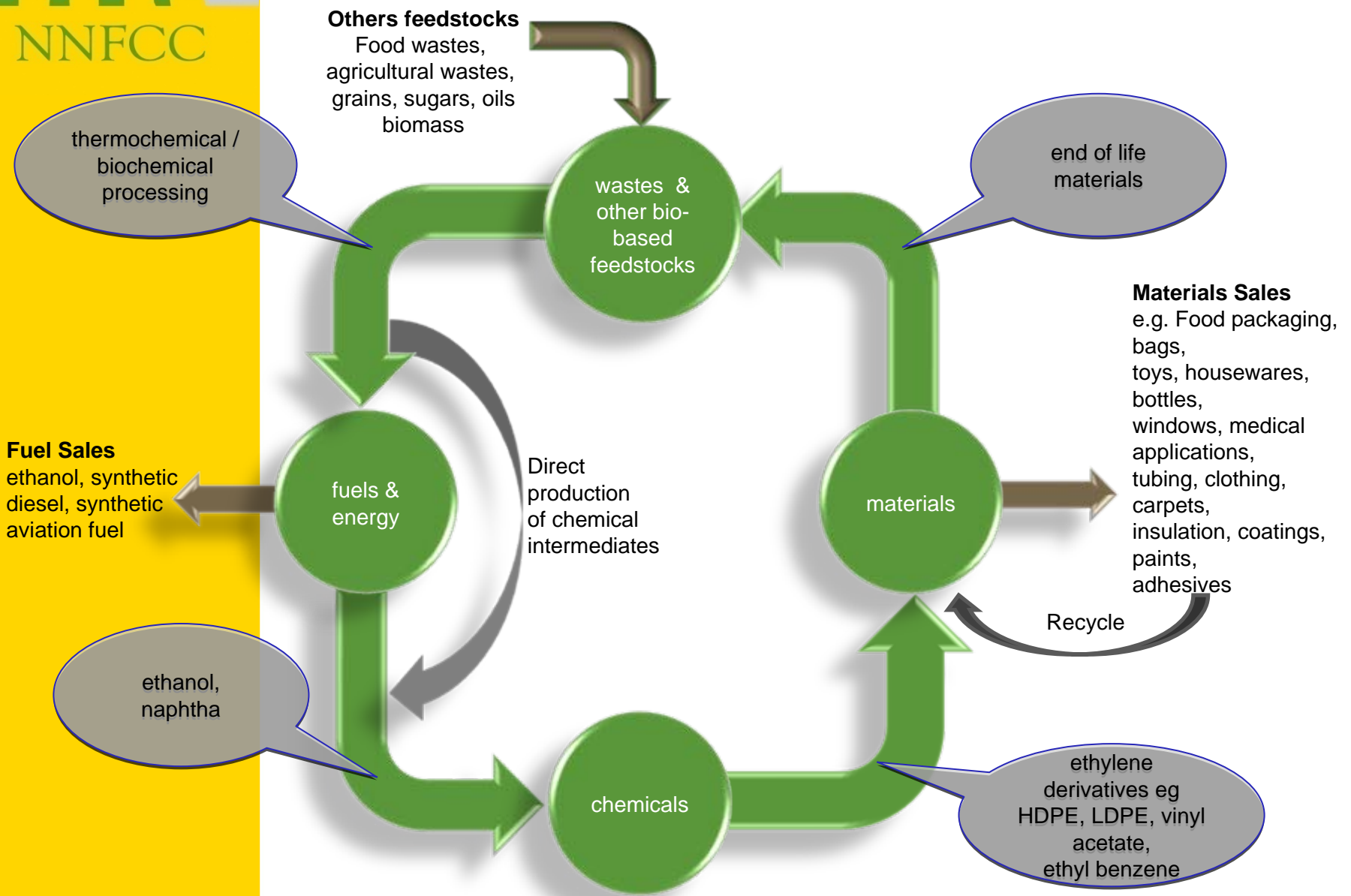
Renewable materials produced by crops, for uses other than food, which replace conventional petrochemical-based materials





NNFCC

Key UK drivers are: **Climate change mitigation**, **Energy Security** and **Improving rural economies**





Arable / Biomass

- Energy Crop Calculator
 - CSL were commissioned to produce an interactive calculator that provides a financial break even and gross margin position between current arable and perennial energy crops.
 - The tool allows the user to change a number of the input variables, e.g. NPK, sprays and energy costs
 - Provides an overall gross margin
- UK Straw Availability
 - CSL were commissioned by NNFCC to undertake a simple mass balance analysis of the current production and use of agricultural straw sources in Great Britain.



NNFCC

Fuels and Energy Projects

In support of the IBS project, NNFCC commissioned North Energy to establish the environmental savings for several configurations incl. logistics and feedstock preparation of a UK based fuel plant. The configurations include:

- **Feedstock type** including
 - Wood
 - Wastes
 - Agricultural residues
- **Decentralised feedstock densification** by
 - Pyrolysis
 - Torrefaction
 - Pelletisation
- **End fuel produced**
 - FT diesel



Fuels and Energy Projects

- Assessment of economic of new AD production technologies. Includes a downloadable cost calculator for estimating costs of anaerobic digestion (AD) facilities.
- In the process of carrying out a Advanced Biofuels Roadmapping project for UK Government.
 - Delphi approach
 - Driver is to identify top ten barriers to the development of thermochemical biofuels and provide recommendations as to how advanced fuel production can be catalysed in the UK.
- A review of technologies for the gasification of biomass and wastes in the UK
- An evaluation of opportunities for converting indigenous UK wastes to fuels and energy.



The Carbon Neutral 'Renewable' House

- The Carbon Neutral 'Renewable' House
 - Taking the conclusions outlined by A.D.Little we have decided to take on a huge challenge to build a 'renewable' house
 - House must be built by June 12th 2009 to be launched at Offsite - the largest construction event in the calendar
 - Felt that time is now right to demonstrate the value of renewable construction
 - Will be a showcase for a wide range of renewable materials
- Other Materials Projects
 - Review of renewable construction materials
 - Anaerobic digestion of bio-based plastics



NNFC

Regional Update

Developing relationships regionally in England Scotland, Wales and N Ireland, through projects and delivery plans

- **Now have a dedicated Regional Delivery Officer**

- **Examples of Regional Projects**

- North East – production of plan to develop a BTL plant on Teesside.
- Yorkshire & Humberside – SWOT analysis on renewable chemicals for Yorkshire Forward
- East Midlands – Farm Foundry scope for feedstock supply to regional industry, Biomass densification for EMDA
- South East – scoping study for SEEDA on regional opportunities



↑ You are in: [Home](#)

WELCOME TO THE NNFCC WEBSITE



NNFCC stands for The National Non-Food Crops Centre. We are the UK's national centre for renewable fuels, materials and technologies, based in York.

- We help to introduce renewable fuels and materials into the marketplace
- We provide independent information and advice to agriculture, academia, Government, industry, the media and the public

We work to **build supply chains** for products made from plants. For these supply chains to succeed, we link up different companies at all stages; from **growing the crops**, through **manufacturing the products** to selling them for **us to buy and use**.

Different people need different information and advice. So our website is arranged as a supply chain: from **crops**, through **manufacturers** to **consumers**. You can explore our site by **clicking one of the three icons below which is most relevant to you**:

growers produce crops...

For growers and processors:

- All the crops
- Process on-farm?
- Economics and statistics



for industry to manufacture products...

About the renewables industry:

- Commercial issues
- Market overviews
- Develop your supply chain



...that people buy and use

Find sustainable products:

- NNFCC Shopping Guide
- Where to learn more
- Recycling and composting



Hot topics

- > [Find out about Anaerobic Digestion](#)
- > [Areas of non-food crops grown in the UK](#)

Hot topics

- > [About compostable packaging](#)
- > [Biofuel FAQs](#)

Hot topics

- > [Where to go for a day out](#)
- > [Where to buy renewables? the benefits...](#)



Kids start here! Read about Sustainable Cinderella. How to make a plant pot from sunflowers! What are your clothes made of?

We also have a growing range of resources to help with research, school projects or science and geography homework. Check out our [Discover!](#) pages for games, stories and activities. Play the carbon footprint game.



NNFCC Toolkit

- [Join our Network and Subscribe](#)
- [Search for Contacts and Funding](#)
- [Documents and Links - Resource Centre](#)
- [Life Cycle Assessment](#)
- [Jargon buster](#)

News & NNFCC Updates

- [Scottish Water to build anaerobic digester.](#)
[read more >>](#)
- [RFA's sixth monthly digest](#)
[read more >>](#)

[More News & NNFCC Updates >>](#)

Non-food crops in the news

- [New Scientist](#)
Invention: Biofuel from the oceans
- [Packaging News \(Environment News\)](#)
Harlands launches 100% biodegradable label

Upcoming NNFCC Events

- [Broadening Horizons: Finding Industrial Research Partnerships - \(Marriott Hotel, York\)](#)
24 Feb 2009
[read more >>](#)

[More Events >>](#)