

ADVISORY COMMITTEE ON ANIMAL FEEDINGSTUFFS

49th Meeting of ACAF on 3 March 2010

Presentation

**The work of the Foodchain & Biomass Renewables Association
(FABRA)**

Presentation from Stephen Woodgate

February 2010

Introduction to Fabra: ACAF January 2010

What is Fabra?

Fabra, is the "Foodchain and Biomass Renewables Association." It is an association of industries that are dedicated to the environmentally sustainable foodchain and biomass recycling sectors. By improving communication and developing closer links with the food industry, FABRA can work more constructively with UK and European regulators, legislators and influencers. In the Foodchain, Fabra have made Education and Research their top priorities. Education will be communicated at all levels and with all members of the sector, including education providers. Research is oriented towards Carbon Footprinting and the supply of animal proteins to animal feeds.

Who are Fabra's Members ?

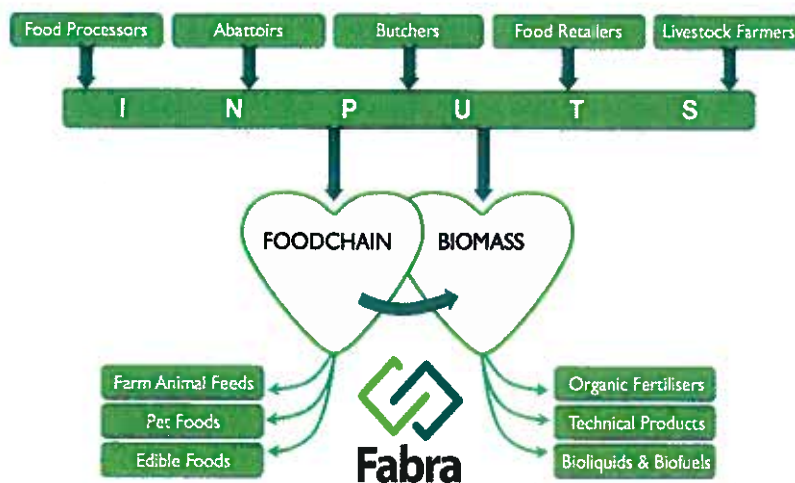
Fabra Members

Caledonian Proteins
 Prosper de Mulder
 P Waddington
 John Pointon & Sons
 Linergy

What do Fabra members do?

Between them, Fabra members share responsibility for the majority of the UK's meat by-product processing capacity, providing essential food and environmental services whilst producing a variety of biofuels and renewable energy resources. An overview of Fabra member activities are shown in the figure below. The figure illustrates the scope and complexity of the activities. The food chain is clearly shown in relation to the other key activity in relation to Biomass utilisation.

Fabra covers the UK



Technical Matters

Stephen Woodgate is the Fabra Chief Executive and Technical Director. He has a wide range of experience in the sector and has presented and published papers in support of the industry over the last 15 years. He is an active member of the European and World Rendering associations at both technical and political and levels. Stephen is responsible for Fabra technical issues and is the spokesperson on technical matters.

Fabra: Key activities in relation to the food chain

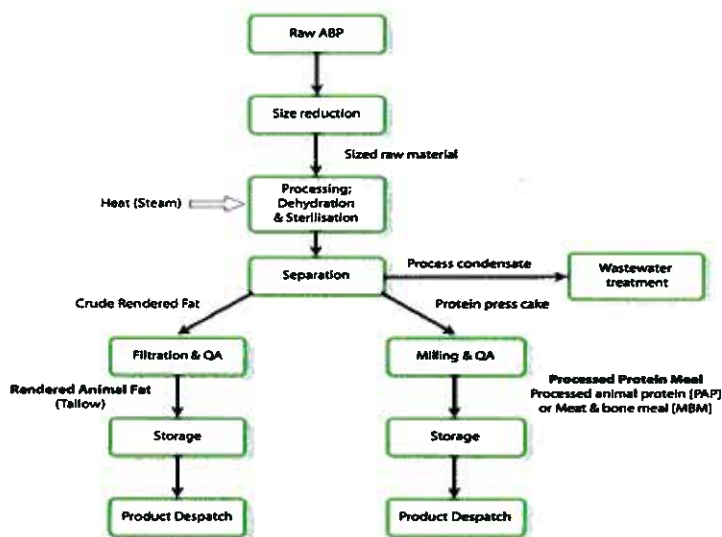
The main processes operated by Fabra members are validated animal by-product processes such as "Rendering" and "Anaerobic digestion" (AD). The former will produce products, according to category, which may be used directly in the food chain. The latter will produce fertilisers which may be indirectly linked to the food chain. In addition, Fabra members offer national services for collection and safe processing of food industry by-products, such as "used cooking oil", some of which, after processing and refining might be suitable for use in animal feed. Fabra members also operate in highly specialised niche markets, for example, producing "blood products" for use in animal feeds (including aqua-culture) and for use in pet foods, and immunoglobulin for the pharmaceuticals.

Focus on the Rendering Process

The rendering industry has been operating in the world for centuries. In essence it is the heat treatment of animal by-products followed by separation of the fats and drying of the solid fraction into a protein meal.

Generic Flow Diagram of a “rendering” process

In practice, the generic process shown above is applied in a much more sophisticated way.



The key aspects are driven by legislation and involve factors such as;

- Categorisation of the Animal By-Product [ABP] (Category 1,2,3) based on risk to humans and animals
- Validated “Rendering” process: Factors; Particle size, Through put, evaporation medium, temperature, steam pressure.
- Segregated or dedicated process plants by ABP Category and/or by species
- HACCP used as critical control tool to ensure security through process.
- Product uses according to risk status of the ABP: These are mainly driven by legislation requirements.

♦ Legislation: Main Regulations; Animal By-Products Regulation (1774/2002) TSE regulation 999/2001

Can Fabra help ACAF update their Bio-fuels Position Paper?

Δ “Animal feeds” means feeds for animals farmed for food * A product category defined in 1774/2002

The potential areas for Fabra to assist the activities of ACAF are as follows:

Direct: As ingredient in (compound) Animal Feeds Δ

Monogastric PAP (monoPAP) [NB: Technical paper already supplied to ACAF December 2009]

Blood products

Rendered animal fat

Biodiesel by-products (Glycerol or Mineral salts from Biodiesel produced using animal fat)

Combustion residues (mineral ash from Combustion of Animal proteins)

Indirect: Materials used on land as Soil improver/ Organic fertiliser*, and land subsequently used for grazing of animals farmed for food

Rendered products (Proteins and Fats).

By-Products of Rendered products Combustion (Mineral ash)

By-Products of Biodiesel production (Mineral salt)

Compost or residue (from Animal by products processed by Composting or AD)

Conclusion:

Fabra would be pleased and willing to assist ACAF with its expertise in any of the technical areas described, subject to a specific briefing or request for information.

Stephen Woodgate

Fabra Chief Executive

January 22nd 2010

Presentation to ACAF

Foodchain and Biomass
Renewables Association {FABRA}

Stephen Woodgate

Fabra Chief Executive

March 3rd 2010



Presentation Outline

- FABRA & Stephen Woodgate
- Animal by-Products & Rendering
- Legislation & Products...
- Can Fabra assist ACAF ?

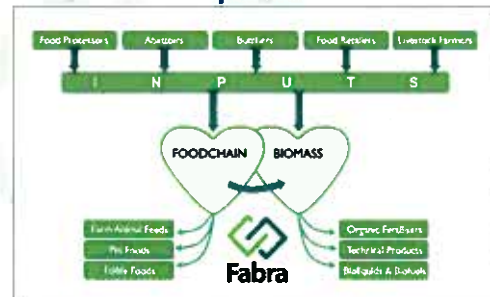


Stephen Woodgate

- Animal Nutrition graduate
- Animal Feed & Nutrition R&D: 1970-1984
- Rendering Industry: 1984 >> to date
- Technical Director EFRA: 2004 >> to date
- Chief Executive Fabra: June 2009
- World Renderers: 2nd Vice President



Fabra: Scope of Activities

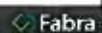
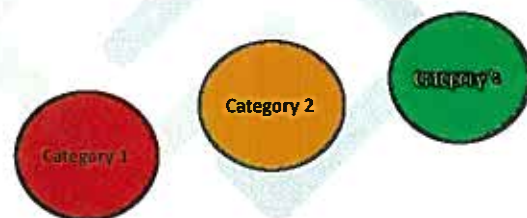


Fabra members: Site Locations



Animal By-Products

Categorised by the EU Animal By-Products Regulation.....
According to the "Risk" to Animals and Humans



Fabra: Assistance to ACAF ?

Direct: Derived Products into (compound) animal feed

Approved (by TSE regulation)

- "Blood products" and Blood PAP for Aquafeeds
- Rendered animal fat

Pending Approval

- Monogastric PAP (monoPAP) for Aquafeeds
[Technical paper already supplied to ACAF December 2009]
- Monogastric PAP (monoPAP) for Pigs and Poultry



Fabra: Assistance to ACAF ?

Direct: By-Products of Derived Products

- Biodiesel by-products (Glycerol or Mineral salts from Biodiesel produced using rendered fat)
- Combustion residues (mineral ash from Combustion of Animal proteins)



Fabra: Assistance to ACAF ?

Indirect: ABP, Derived products or By-products

Materials used on land as Soil improver/ Organic fertiliser, and land subsequently used for grazing of animals farmed for food.*

- Rendered products [Proteins and Fats]
- Combustion By-Products [Mineral ash]
- By-Products of Biodiesel production [Mineral salt]
- Compost or AD residue [from Animal by products processed by Composting or AD]



Fabra: Assistance to ACAF ?

Summary

Fabra has expertise in areas of the food chain that impact on the work of ACAF

Specifically....Applications for processed ABP that can be used in or as animal feed... either directly or indirectly
Fabra is able to assist ACAF in their understanding of this sector in any way that is appropriate.

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