



A Time for Action

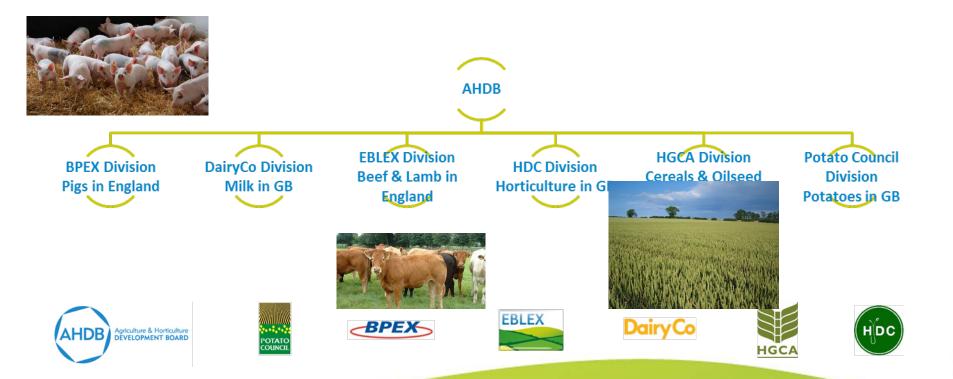
Sustainability Activity in the Red
Meat Sector
Christine Walsh



Who we are



- Levies ring-fenced to benefit the sector from which they are raised
- Delivery through six branded operating divisions





AHDB purpose



To make our agriculture and horticulture industries more competitive and sustainable.

Main activity areas:

R&D

Knowledge Transfer

Export Development

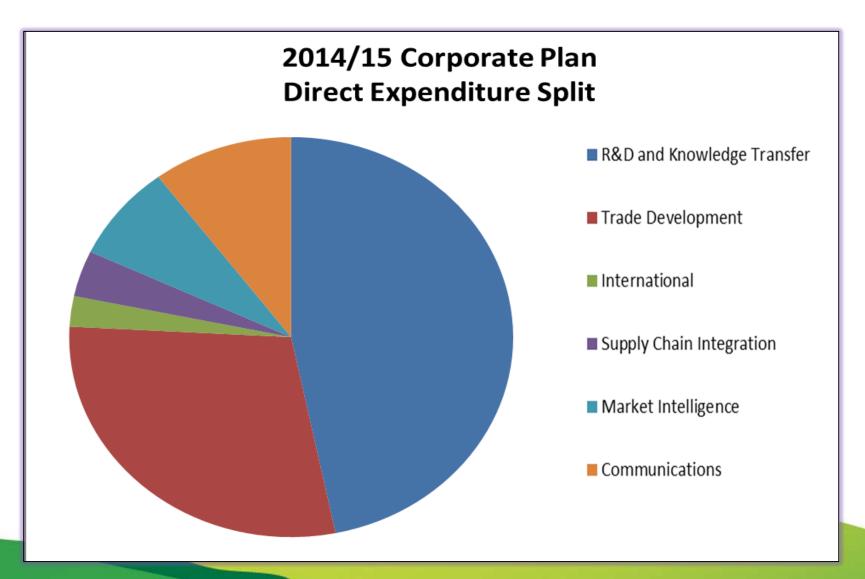
Trade Development

Market Intelligence





Direct expenditure split





Overview



- AHDB / Eblex
- Drivers in Meat Industry
- Supply Chain
- What works in the meat industry
- Sustainability clubs
- VECC ?





The reality for agriculture & food supply chains

- Extreme weather occurrences:-
 - Flooding Somerset
 - Droughts e.g. California, Australia, China & Southern Spain
- Cost of oil and energy
- Cost of food (35%)
- Global population 2014 $7 \times 10^9 \rightarrow 2100 11 \times 10^9$
- Consumer demand for protein (meat and dairy)from middle classes in diet from the transitional countries
- Rising demand for land and natural resources to produce food and fuel





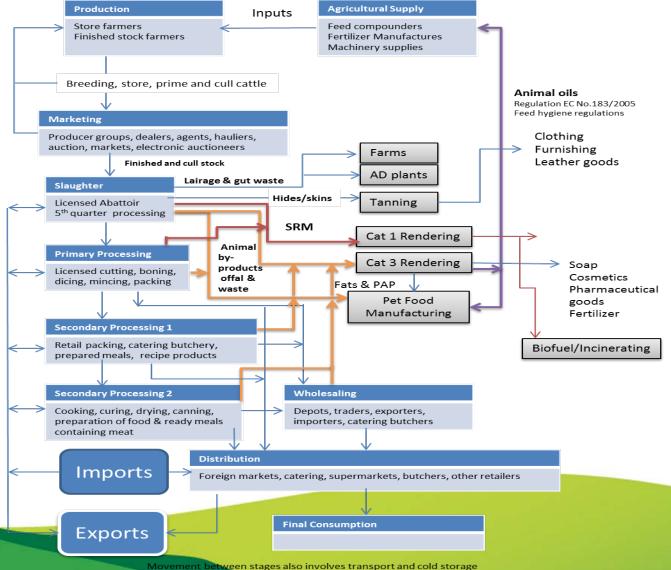
Pressure facing the meat industry

- Increasing livestock prices and retailer pressure to reduce selling price
- Consolidation of the processing sector
- Aggressive retailers trading tactics relationships
- Government CO₂ reduction targets
 - **30%: 2020; 80% 2050**
 - BREF, PEF, WRAP, GOV
- High carbon footprint in production phase
- Opening of Export markets both ways











Agriculture & Horticulture DEVELOPMENT BAIDNKS in the supply chain



kWh/yr/ton output

Total fuel estimate Electricity: 86.1

from Warwick: Gas: 20.4

Beef: 823.8 Gas oil: 0.39

Producer

Processor

Retailer

Consumer

PRODUCERS

Farmers

Hauliers

Livestock markets

Genetic / feed companies etc

PROCESSORS

Abattoirs

Cutting plants

Retail packers

Further processors

Pet food

manufacturers

RDCs

Renderers

RETAILERS

Multiples /

independents

Farm Shops

Restaurants/ food

service

Exporters

Butchers

Wholesalers

CONSUMER







DECC/BIS
EU Product
Environmental
footprints
Environmental Agency –
BREF





INDUSTRY EXAMPLES



Shining Examples



- Cranswick
- Direct Table
- Dawn
- Dunbia









- Barnsley
 - new technologies
- Preston
- Watton

Milton Keynes

- Energy efficient lighting, pumps and control systems to reduce the sites annual energy consumption and reduce its costs by more than 30%.
- Clayton heat recovery system which takes the exhaust gases from the singer to provide hot water
- New refrigeration system fitted with heat exchangers
 - improve energy efficiency
 - recover heat and provide the sites hot water requirements.
- New extension included energy & water efficiencies
 - lighting system.
 - new cooking system





- Large food company with 27 factories across Ireland, UK and South Africa.
- Heat recovery from contaminated steam using a superconducting heat recovery system.
- First of its kind in the world.
- How water was piped over 1KM to sister factory.
- Fully automated solution installed.
- Results:
- Savings : €600K
- Capital costs : €1 M







Dunbia Planet **Our Environment**

4,500,00

55.5%

13.6%

Energy reduction activity 3 examples

newtrefrigeration system activities. We strive to manage our sheep plante with legislation

and reduce our environmental impact heat recovery

-m reducing boiler energy usage by over 10%

Voltage optimisation technology

retail pack plant

Reduced total electricity by 7% or of

CO2 - 186 tonnes/ yr (25 kettles

24/7/365) sloning of two stale-of-the-art

Energy efficient lighting (LE fitted in 3 plants)

70% light energy saving

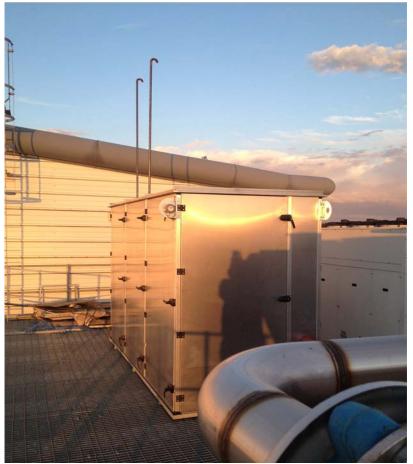




Direct Table



- LED lighting retrofit to entire plant
- Motor controls system installed across entire plant.
- High pressure heat pump installed which utilises heat from refrigeration system and increases temperature to 65 degrees C
 - Heat pump supplies hot water for wash down and also office heating







Sustainability Clubs







Why

DECC/BIZ
EU Product
Environmental
footprints
Environmental Agency –
BREF

Greenfoods – Newcastle

Centre for Sustainable
Energy Use in Food
Chains - Brunel,
Birmingham &
Manchester





Environmental savings

- To set out collective environmental ambitions for the meat industry over 4 years
- Benchmark potential to feed into BAT
- Agree targets
- Share best practice
 - Research
 - External training and knowledge transfer
 - Database and fact sheets



Deliver Plan



Mar 2015

Initial proposal following stakeholder consultation

Major stakeholders agree to targets

Major stakeholders give "in principle" commitment











Apr -Jun 2015

Call to Commitment Collect & analyse figure

Cost-benefit assessment of achievable impacts

Early 2016:

Targets announced and Commitment starts





How

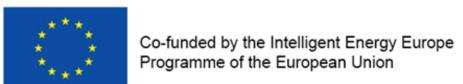
- Set up clubs for small and IPPC companies
- Host regular meetings around the country
 - Interesting and practical topics
- Annual measurements that we can publicise collective improvements
- Visits to exemplary companies U.K. and abroad
- Link up with Wiki VECC website to



VECC







- New tool for EU food and drink industry
- Aim: reduce fuel consumption & progress towards zero fossil CO2 emissions!

What would you like to see on web site?







- How-to videos
- Market Intelligence
- Latest industry news
- On-going work
- Seasonal hints &
- Worldwide events
- Conferences coverage







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