Global Metrics for Sustainable Feed

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The Value of Environmental Data in Livestock Feed Production

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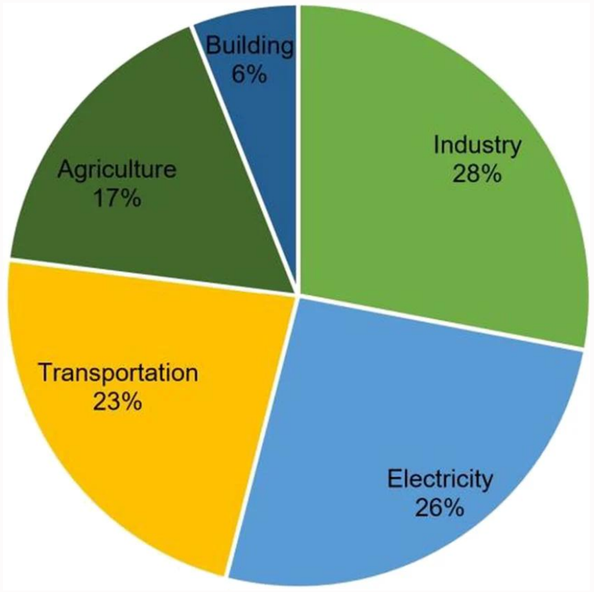
www.globalfeedlca.org

The Big Picture

- COP 21, 2015
- 187 countries agreed to limit global warming by 1.5’C
- Measure and Report progress

- COP 26, 2021
- 159 countries, representing 50% of anthropogenic emissions
- Committed to reduce methane by at least 30% from 2020 levels by 2030



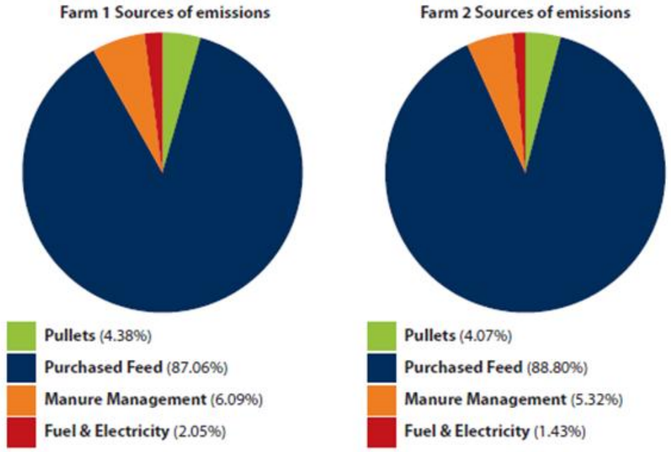
Global CO2 emissions by sector (IEA 2020)

The environmental contribution of animal feed?

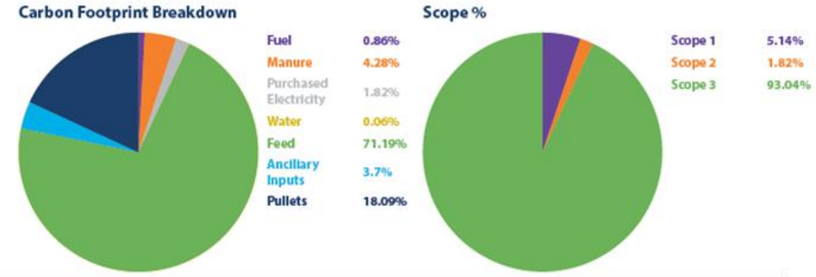
Table 1 - Carbon footprint results

	Total emissions (kg CO2e / farm)	Emissions intensity (kg CO2e / kg eggs)
Farm 1	4,827,033	3.01
Farm 2	973,830	3.44

Figure 4 – Sources of greenhouse gas emissions on free range poultry units



Source: BFREPA Sustainability Scheme Report, 2021



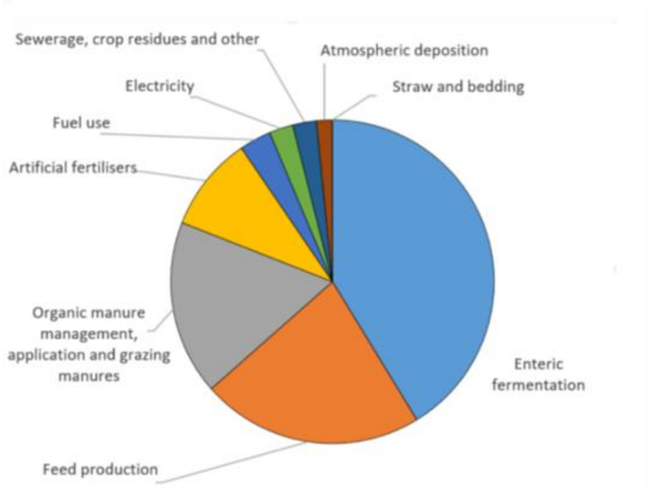
Sequestration

Total Sequestration	3978.592000

Net emissions

Net emissions, $kgCO_2e/kg$ egg	1.91
Net emissions to offset, t	1494.338468

Source: Ranger (Eggbase), Mar 24



A typical carbon footprint of a UK dairy farm, Source ADAS 2026

Measurement and Calculation

What Method?

GREENHOUSE GAS PROTOCOL

ISO

SCIENCE BASED TARGETS
DRIVING AMBITIOUS CORPORATE CLIMATE ACTION

PEF/OEF
Product/Organisation Environmental Footprint

GSTA
Global Sustainable Transition Alliance

Which Tool?

SimaPro

CFT COOL FARM TOOL

Sustell™

Farm Carbon Toolkit

OPENLCA

Eggbase Carbon Calculator

agrecalc

What Data source?

Agri-footprint
a Blonk solution

HESTIA

ecoinvent

WAGENINGEN
UNIVERSITY & RESEARCH

EVONIK
Leading Beyond Chemistry

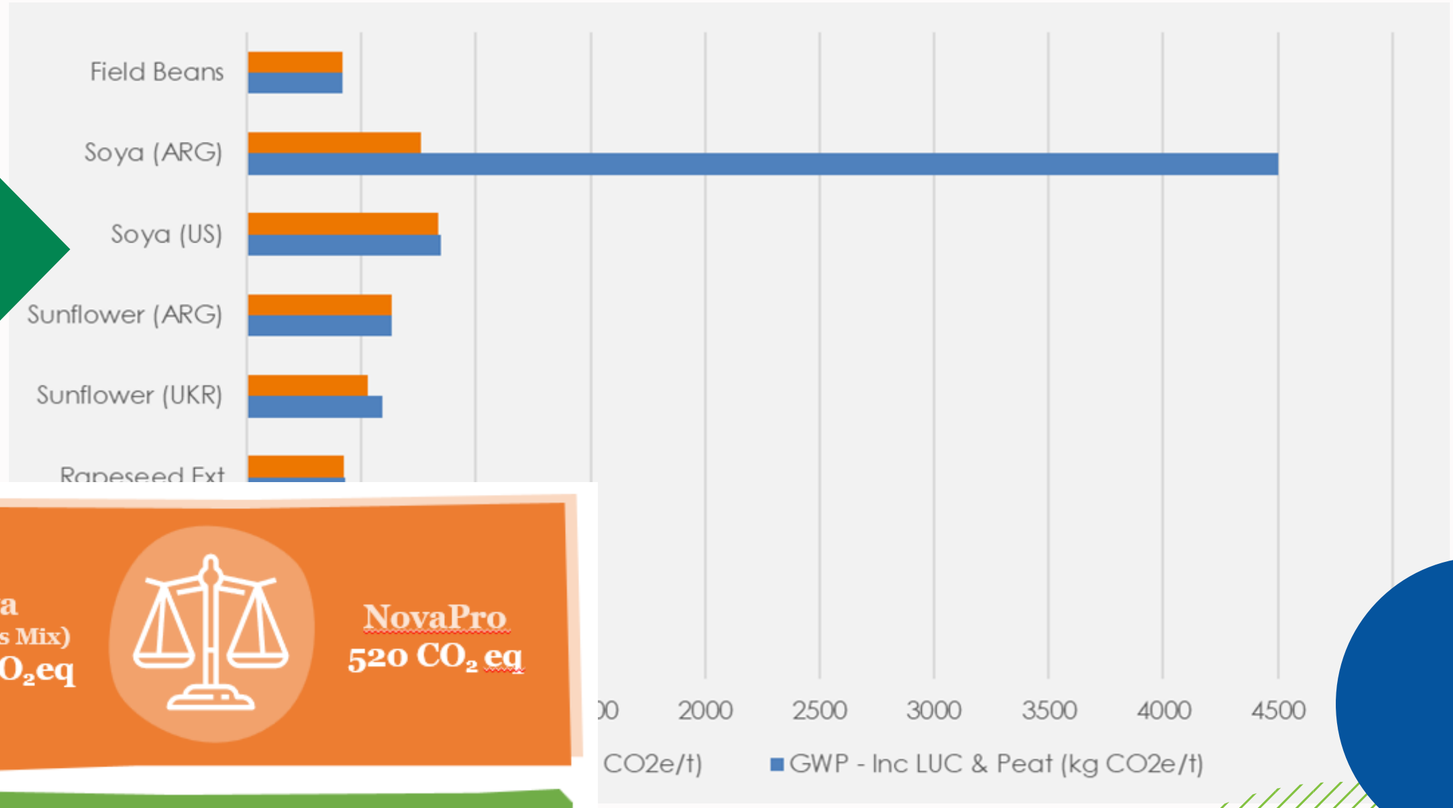
BRENNTAG

Where does that leave the Industry?

- Many feed companies operate globally
- As an industry we need:
  - Reliable
  - Consistent
  - High quality
  - Verified
  - Regularly updated
  - Economic
  - Global

What does that mean for feed operations?

Leverage GFLI data as parameter in feed formulation



Wheat
462 CO_2 eq

Bread Meal
114 CO_2 eq

Soya
(Americas Mix)
4436 CO_2eq

NovaPro
520 CO_2 eq

Soya Hulls
2778 CO_2 eq

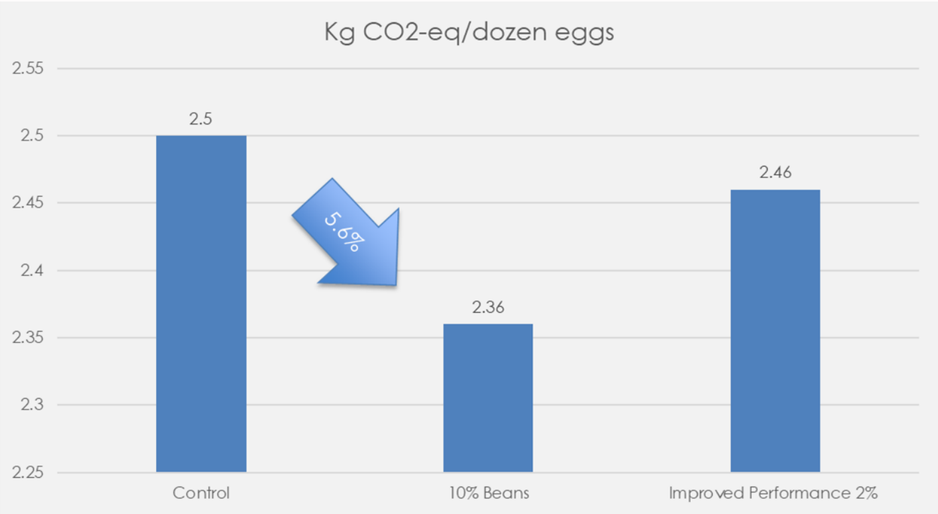
SBP
390 CO_2 eq

Grass Silage
290 CO_2 eq

Brewers Grains
Transport only
CO_2 eq

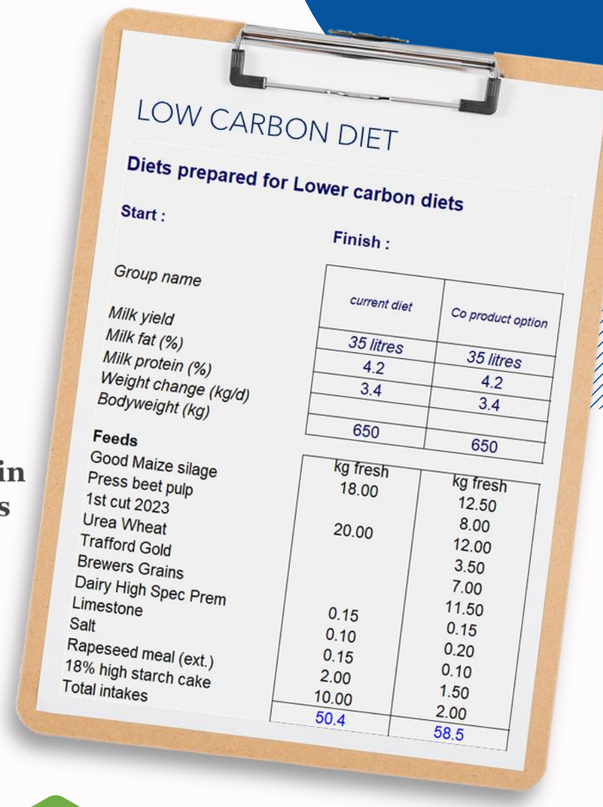
Some practical examples:

- 16K flock
- Commercial Diet Programme – Wheat/Soya
- 3 Treatments:
  - Control
  - Reduce Soya (10% field beans)
  - Improved Management



Replace some forage and 8kgs concentrate with **co-products** and some **home-grown urea treated wheat**

Balanced for **energy, protein and minerals**



Saving 3.5 ppl (now 1.5 ppl) from cost of bought in feeds

FARMER VERY HAPPY! COWS PERFORMING VERY WELL!

Totally balanced with no difference in herd performance

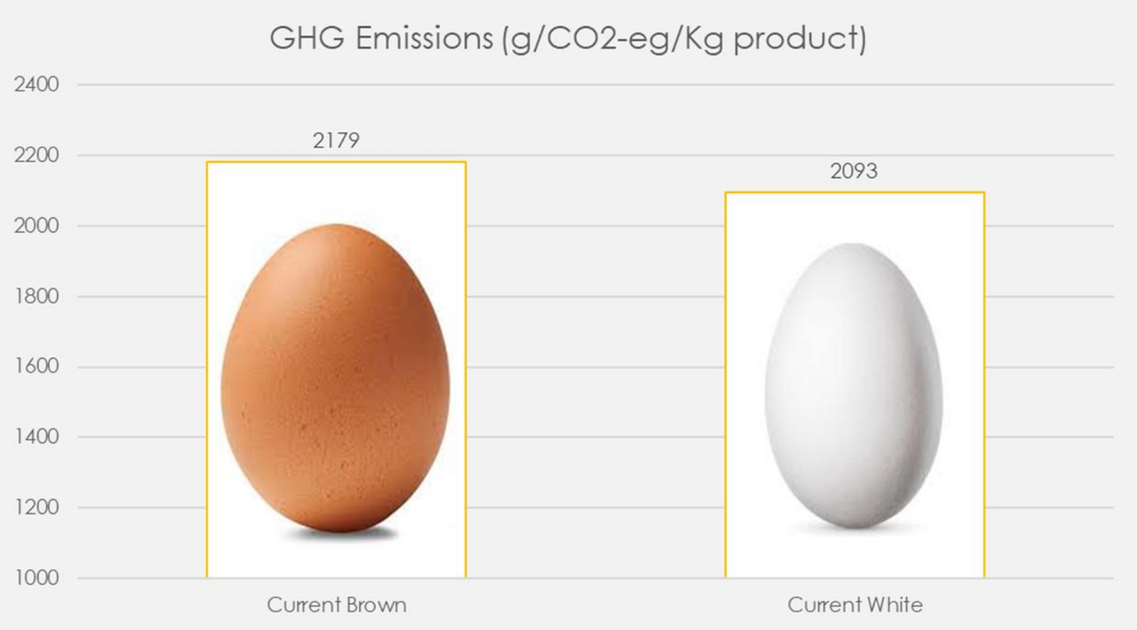
Carbon footprint of this diet dropped dramatically

Impact of the total CF per FP corrected litres

= 21.7% reduction

Actions from the Supply Chain?

Deliver sustainability reports and innovate



In the UK brown eggs are more prevalent despite being nutritionally identical

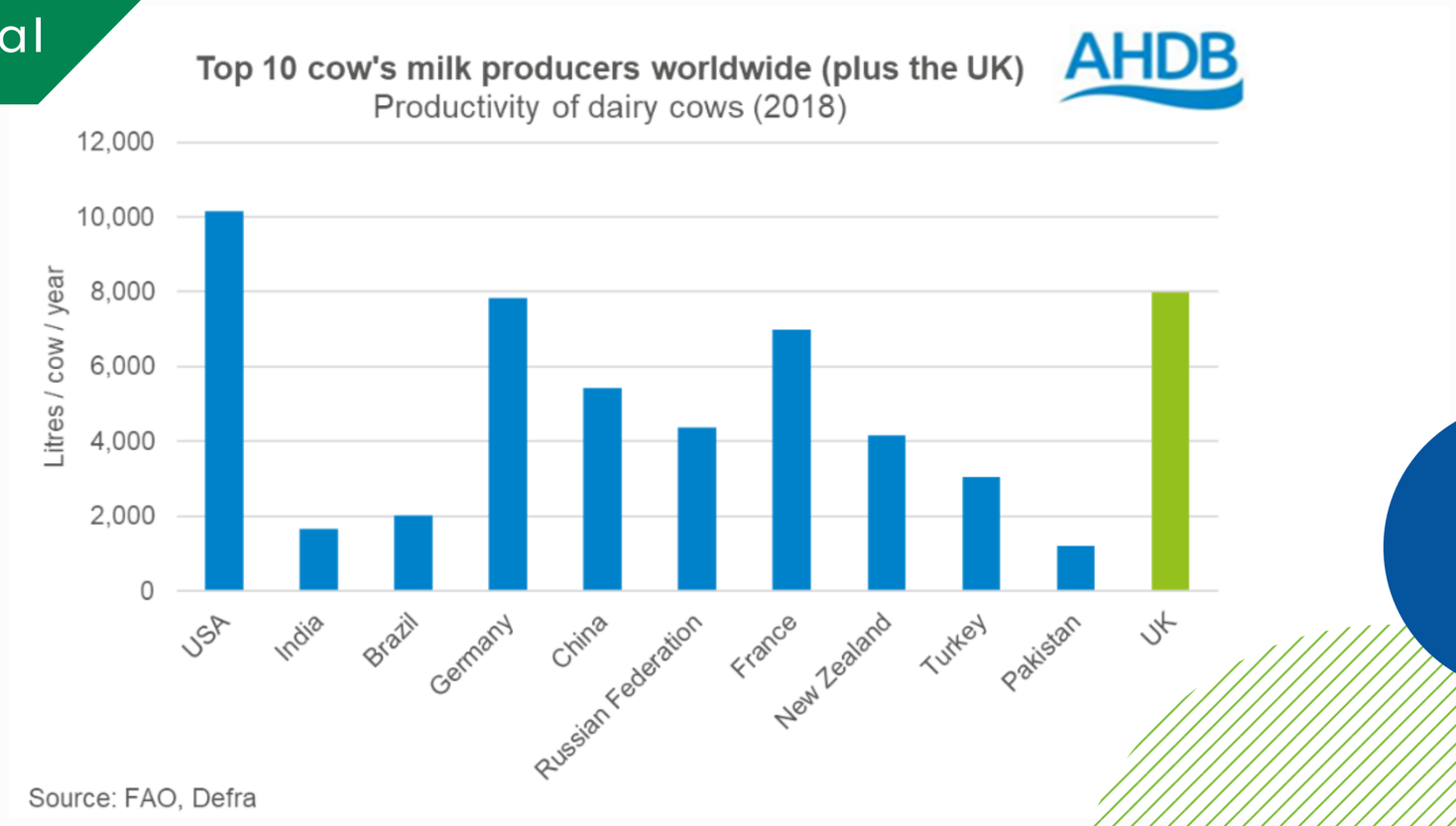
- Access to **good quality consistent** data has enabled supermarkets to make decisions with what they offer consumers

The white bird is more feed efficient and lives longer and offers eggs at a lower environmental footprint than the brown bird

European producers are incredibly efficient

Stopping animal production in the EU/UK is detrimental

- Significant reductions in environmental emissions can can be made by improving animal performance
- If all animals were as **productive** as those in **Europe** we could reduce the total animal numbers to approx. **1/3 of todays cow numbers**

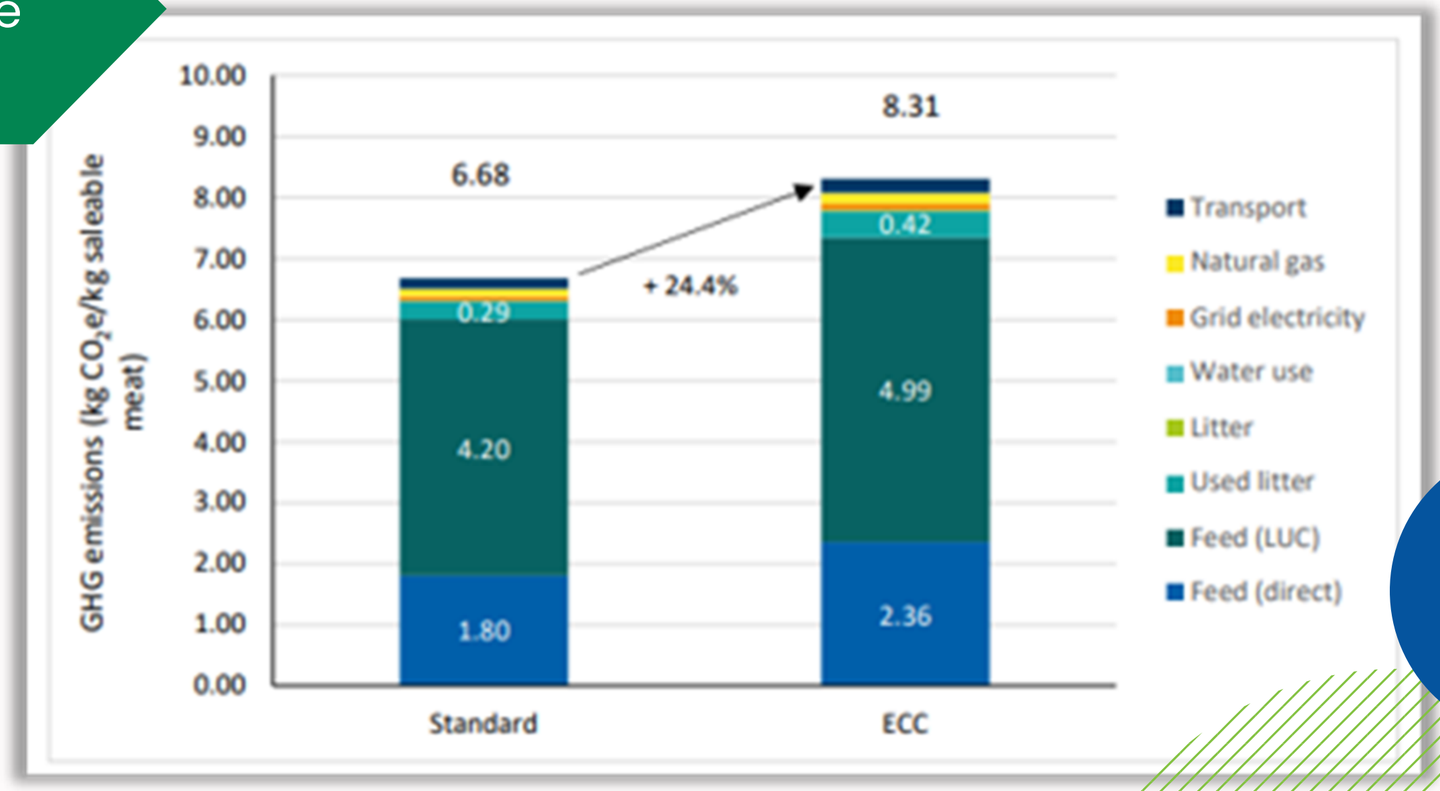


Source: FAO, Defra

Assessing the Unintended consequences..

Ensuring the correct decisions are made based on data

- Greenhouse gas emissions per kg of meat produced for standard and European Chicken Commitment (ECC)
- Study carried out by RSK ADAS Ltd. (2024). Costs and implications of the European Chicken Commitment in the EU



Take home messages

The pressure is on, and its not going away

Consistency in data methodologies is key

Feed industry has made significant progress in reducing environmental impact

Data is important throughout the supply chain

Production in the EU is best in class

Global Metrics for Sustainable Feed

THANK YOU

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GFLI Corporate members

GFLI Association members

FEFAC
Experts in Animal Nutrition

AFIA
American Feed Industry Association

Animal Nutrition Association of Canada
ANAC
Association de nutrition animale du Canada

SjømatNorge
Norwegian Seafood Federation

EuroFAC
La Représentation Européenne de la Nutrition Animale Française
EU French Feed Industry Representation

USSOY

Farm Carbon Toolkit

USSEC

PULSE CANADA

DVT
DEUTSCHER VERBAND TIERNAHRUNG E.V.

sindiraçoes
Sindicato Nacional da Indústria de Alimentação Animal

aic
agricultural industries confederation

SEGES INNOVATION

Cool Farm

asc
ASC-AQUA.ORG
TM

Nevedi

U.S. GRAINS COUNCIL

IFFO
THE MARINE INGREDIENTS ORGANISATION

NARA
NORTH AMERICAN RENDERERS ASSOCIATION

DAKOFO
Danish Grain & Feed

IFIF
Feed the world