

Monogastric Emissions Reporting Service



www.abvista.com



How Can AB Vista Help Reduce Emissions



The life cycle of animal products and agriculture significantly contributes to global GHG emissions.

Depending on the species, 40-80% of livestock greenhouse gas (GHG) emissions are associated with the production of feed. Making changes to the feed formulation could therefore have a large impact on the carbon footprint of live animal production.

To help livestock producers reduce the level of GHG emissions, AB Vista offers its customers an Emissions Reporting Service to calculate the carbon footprint of animal production systems at farm gate, and provide feeding strategies to reduce the environmental impact of meat and egg production.

Emissions Reporting Service

We have partnered with our sister company, Intellync, to bring their on-farm carbon footprint assessment model to the animal production industry.

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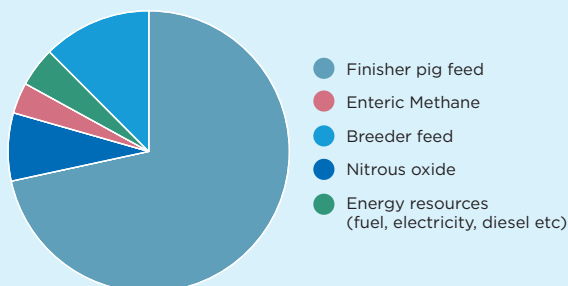
Depending on the objective the production data of the farm is collected and entered into the carbon footprint model with the support of an AB Vista representative.

We perform an in-depth review of the outputs, applying our nutritional expertise to develop clear and actionable insights into the mitigation of GHG emissions of the animal product, and adapted to the customer objective.

Outputs are delivered to the customer in a tailored report.

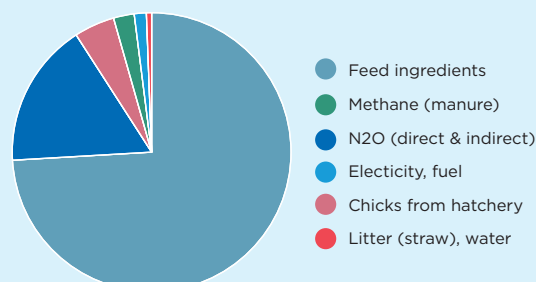
The service uses the GFLI database, an internationally recognised table reporting the carbon emission factors for raw materials by geography. The model follows the IPCC guidelines under scope 3 emissions standards, and PAS2050 methodology.

Carbon footprint partitioning of finisher pig (GWP100, kgCO₂e/kg live weight)



Carbon footprint partitioning of finisher pig, calculated from the global warming potential to 100 years (GWP100) in kg CO₂e/kg finisher pig at farm gate.

Carbon footprint partitioning of broiler (GWP100, kgCO₂e/kg live weight)



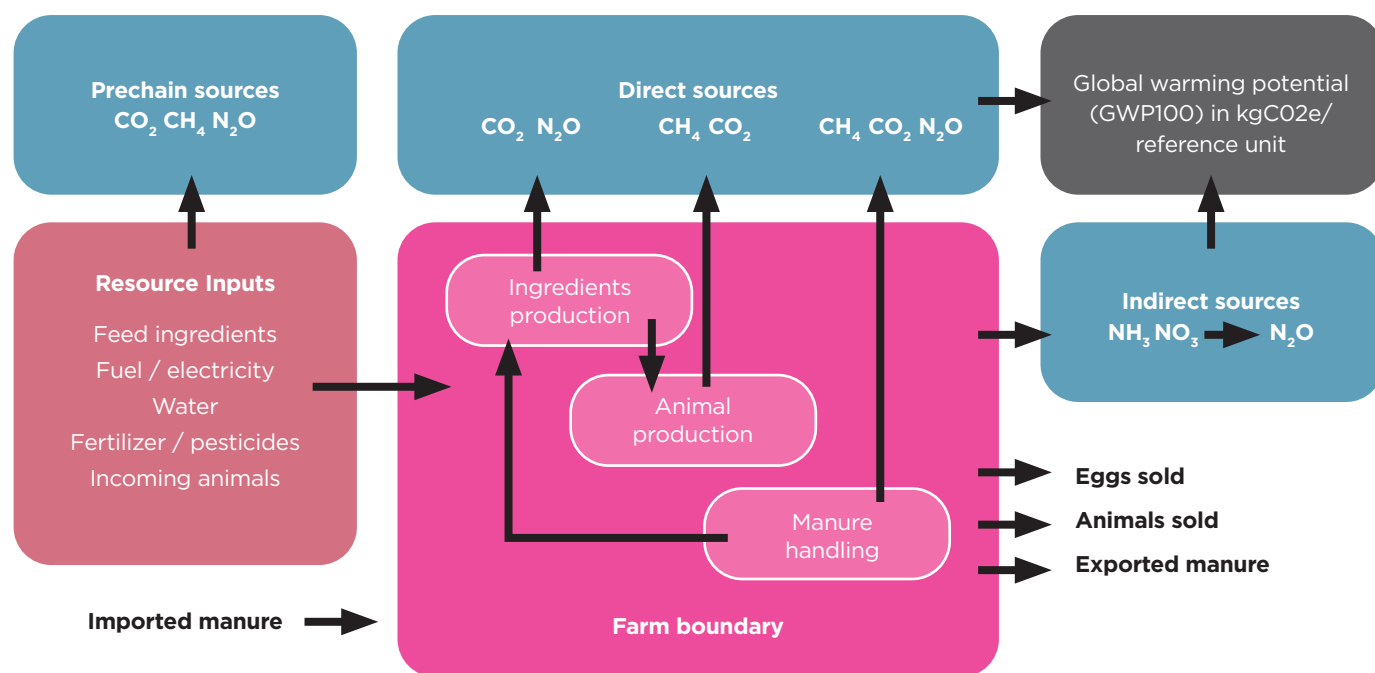
Carbon footprint partitioning of broilers, calculated from the global warming potential to 100 years (GWP100) in kg CO₂e/kg broiler at farm gate.



How Can AB Vista Help Reduce Emissions

We leverage Intellync's 20 years' expertise in carbon footprint assessment of agricultural systems, combined with AB Vista's expertise in animal nutrition and feed additives to calculate the carbon footprint at farm gate and develop feeding strategies to reduce customer's environmental impact. We deliver the highest quality feed intelligence and recognize our responsibility to enable our customers to choose appropriate strategies that can reduce their impact on the environment.

What do we assess and measure?



The data we have collated demonstrates that small changes in the diet can have a big impact on emissions without affecting animal performance or increasing cost.

Following the quantification of carbon emissions, AB Vista works with its customers to simulate formulations with different ingredient types or origins and select feed additives which support the reduction of emissions. These solutions often include additives which increase digestibility and improve gut health.

Changes to animal performance and cost differences are also considered to support the overall goals of the producer.

In a recent broiler feed formulation simulation, we calculated a **9% reduction in the feed carbon footprint*** when switching to an MMN strategy. This also resulted in a **4% cost saving**.

In a recent swine feed formulation simulation, we calculated a **14.6% reduction in feed carbon footprint**** when switching to an MMN strategy. This also resulted in a **4% cost saving**.

*When using Quantum Blue 1500 FTU full matrix + Econase XT 1600 BXU compared to Quantum Blue 500 FTU MIN + EXT reduced energy (9600 BXU). Results vary per region.

**When using Quantum Blue (2000 FTU/kg) + Econase XT (16,000 BXU/kg) compared to Quantum Blue Ca & P Release (500 FTU/kg). Results vary per region.

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