

A close-up, slightly blurred photograph of a herd of dairy cows in a milking parlor. The cows are black and white, with some having brown patches. They are all wearing bright yellow identification tags on their ears. The background shows the metal structure of the milking equipment and a clear sky.

LRG Partnership Update Environmental Defense Fund

John Tauzel, Associate Vice President, Global Agricultural Methane

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Environmental Defense Fund

**Building a vital earth for
everyone**



**Ensuring vital nutrition
for everyone**

**Supporting the vital need
for economic security**





Agenda

- Animal Health & Climate
- Science Projects & Update

Animal Health & Climate Initiative





THE UNIVERSITY
of EDINBURGH

Edinburgh Napier
UNIVERSITY



AG EMISSIONS
CENTRE

New Zealand
Agricultural
Greenhouse Gas
Research Centre



**GLOBAL DAIRY
PLATFORM**

ILRI

INTERNATIONAL
LIVESTOCK RESEARCH
INSTITUTE



GLOBAL
RESEARCH
ALLIANCE
ON AGRICULTURAL GREENHOUSE GASES



**Environmental
Defense
Fund**



MICHIGAN STATE
UNIVERSITY



**Global
Methane
Hub**

Phase II: Animal Health & Climate Initiative

October 2025 – September 2028



Potential Flagship: Understanding disease burdens—and GHG wins—in specific countries and regions: 7 CLIFF-GRADS positions submitted, potential funding for 3 research groups and coordinator



Real World Demonstration: Argentina project on GI nematodes in beef systems and mastitis in India



Policy & Finance Action: Potential funding for work with an additional five countries and engagement with funders like World Bank, IFAD and others



Action & Awareness: Continued efforts to raise ambition and action

Needed: Support from GRA members (in-kind and financial), interest for research projects



Science Update & Needs

Engaging environmental NGOs to drive research



Cornell Atkinson and NGO partners announce dairy sustainability awards



Projects include:

- Farmer and consumer perceptions of enteric solutions
- Whole farm MMRV and benchmarking
- Impacts of early life interventions
- Farmer adoption of manure solutions
- Additives for stored manure

MethaneSAT™



MethaneSAT

- Launched in Spring 2024
- Fills a gap in capacity: larger area with high sensitivity
- With support from New Zealand
- Will provide 30 sites (200km swath) a day across all sectors

MethaneSAT & Agriculture

- New Zealand's NIWA lead the first round of this research around MethaneSAT & agriculture
- Forthcoming publications
- Release of some data scenes



**MethaneSAT loses contact
with satellite**

Beef Systems Review



- Enteric solutions are more limited at this time.
- What are other major levers to reduce CH₄ emissions from beef systems?
- Comprehensive system analysis including stakeholders, system analysts, scientific experts and environmental justice experts.
- **Quantifying enteric reductions from feed and feed ingredients**

Scaling Adoption



NEEDS:

Developing MMRV for avoided emissions

Systems science

Social Science

Focus on just transition

Thank you!

