MLA Sustainability R&D *update*

Presented by Dr **Margaret Jewell**

mla
MEAT & LIVESTOCK AUSTRALIA

CN30 | Carbon Neutral 2030

CN30 | Carbon Neutral 2030

mla MEAT & LIVESTOCK AUSTRALIA

CN30 | Carbon Neutral 2030

mla
MEAT & LIVESTOCK AUSTRALIA

CN30 | Carbon Neutral 2030

Target – for the Australian red meat industry to achieve net-zero greenhouse gas (GHG) emissions by 2030

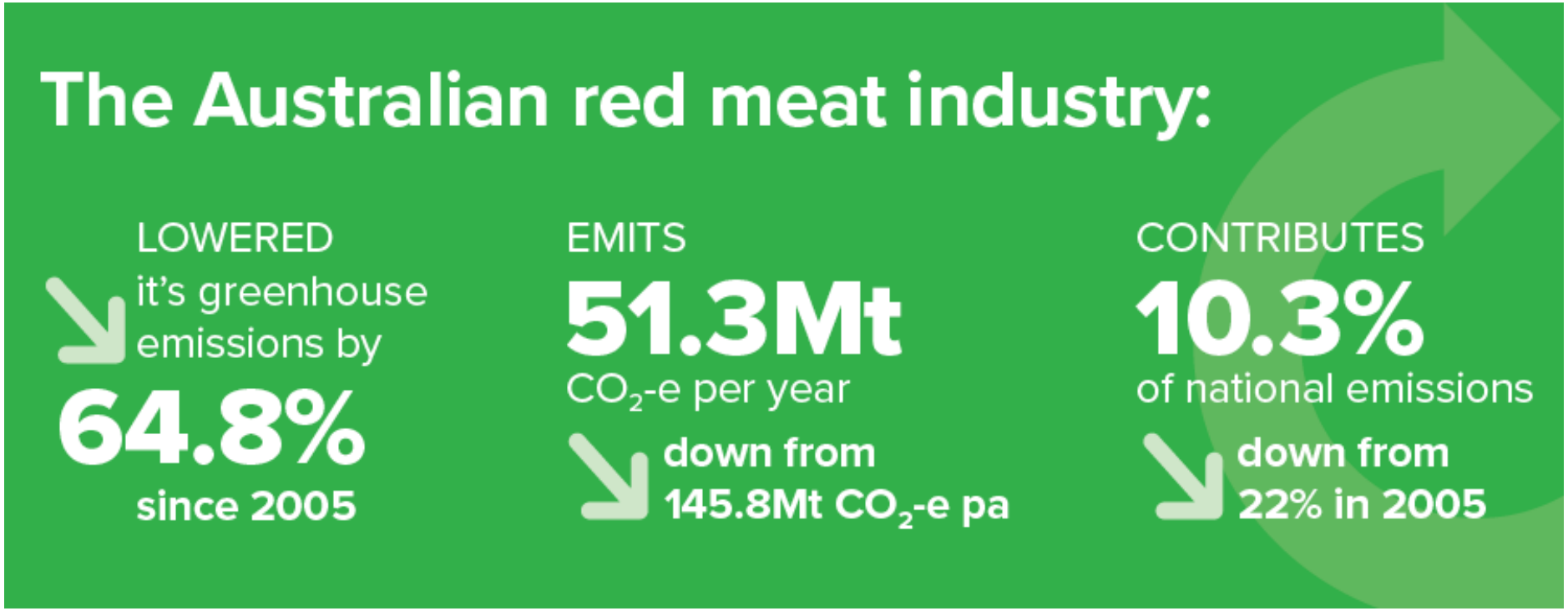
Coordinated RD&A effort

GHG emissions − emissions captured and/or offset = 0 CO_{2e} emissions p.a.

GHG emissions are measured and reported by the National Greenhouse Gas Inventory accounts under Agricultural Emissions and Land Use Land Use Change categories

CN30 | Carbon Neutral 2030

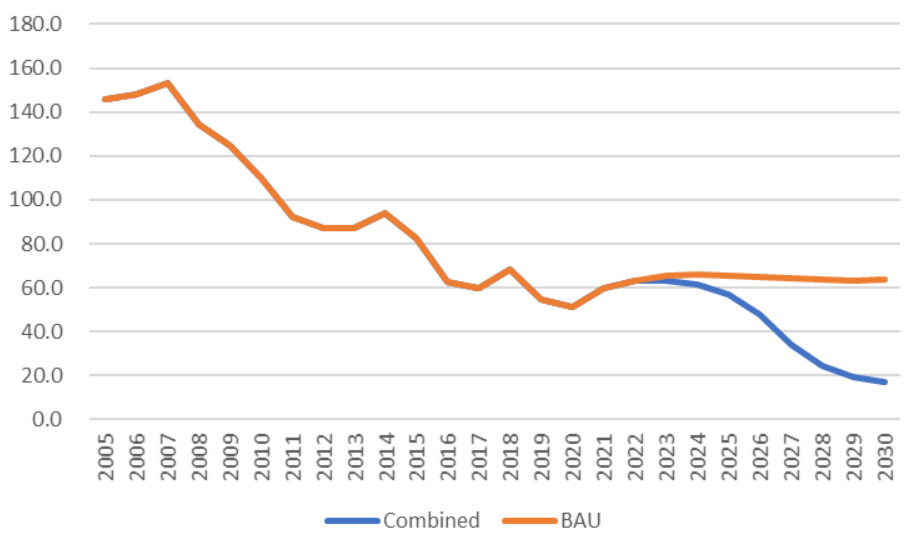
mla MEAT & LIVESTOCK AUSTRALIA



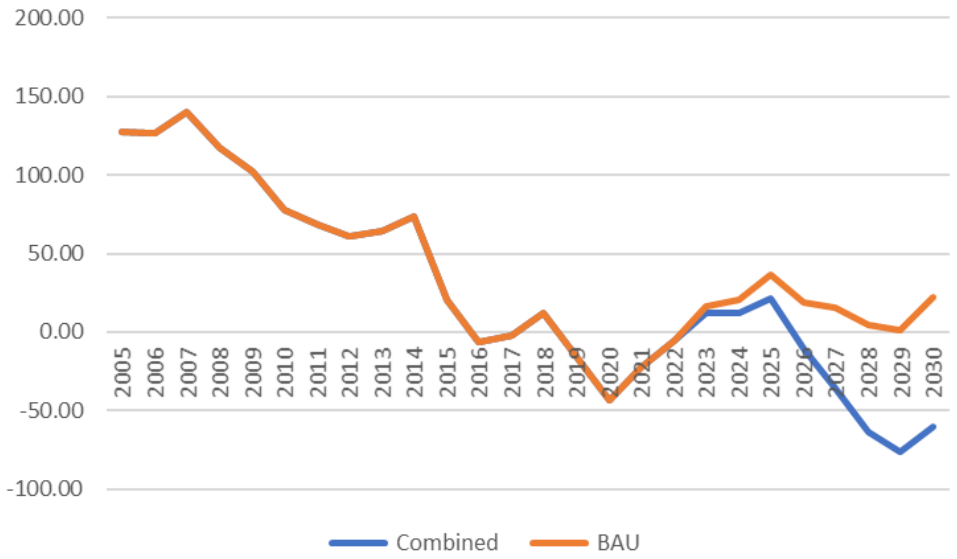
>$140 million invested since 2017

Carbon neutral vs Climate neutral

Carbon neutral:
No net release of GHG's; metric is **GWP100**

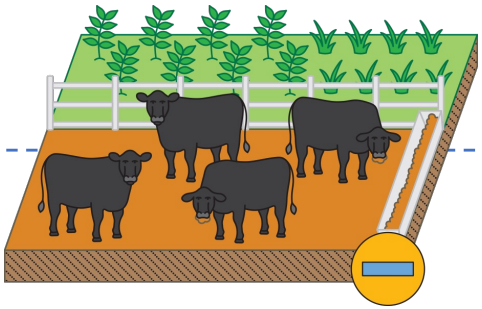


Climate neutral:
No further increase temperature; metrics are **GWP*** and **Radiative Forcing,** direct methane reduction (30-60%).



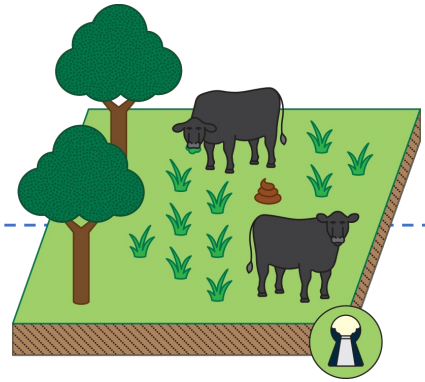
CN30 roadmap

Industry leadership



GHG emissions avoidance

Grazing properties
Feedlots
Processing facilities



Carbon storage

Grazing properties

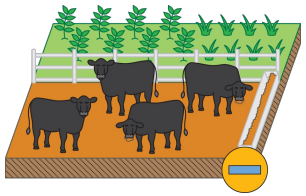
Integrated management systems

Rapid adoption
Carbon accounting
Measurement and reporting

CN30 Carbon Neutral 2030

mla MEAT & LIVESTOCK AUSTRALIA

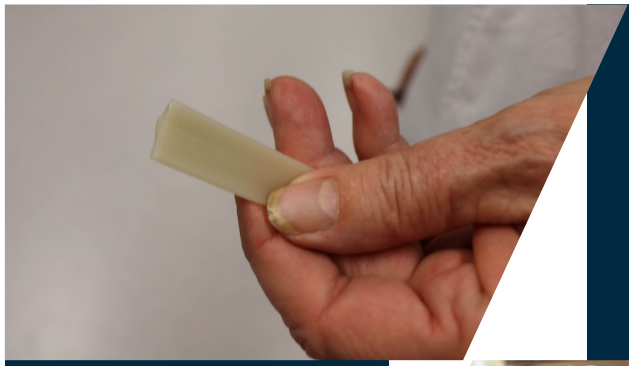
Emission avoidance



- 3-NOP, Asparagopsis, other additives
- Additive delivery in grazing systems (licks, bolus, water)
- Genetic selection (ASBVs and EBVs)
- Legumes and multi-species pastures
- Best practice (optimal fertility, FCE, performance, health etc)
- Savanna burning

"Cows fed small amounts of seaweed burp 86% less in methane trial."

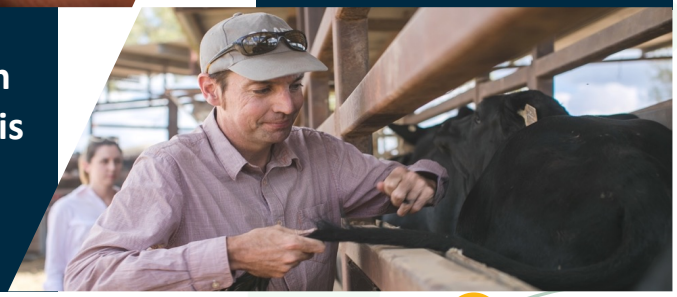
ABC Science, 18/03/2021



"Feed additive found to reduce methane emissions by 90% in feedlot trial."

Beef Central, 12/05/2021

Genetic selection for low methane is permanent and cumulative

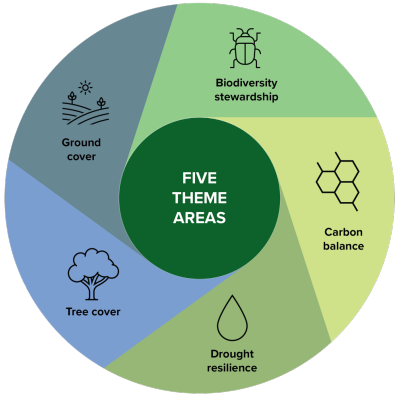


CN30 | Carbon Neutral 2030

mla MEAT & LIVESTOCK AUSTRALIA


Australian Government
National Landcare Program
Environmental Credentials for Grassfed Beef
11
CN30 Carbon Neutral 2030
The University Of Queensland AUSTRALIA
WWF
mla
MEAT & LIVESTOCK AUSTRALIA

Concept



Credentials

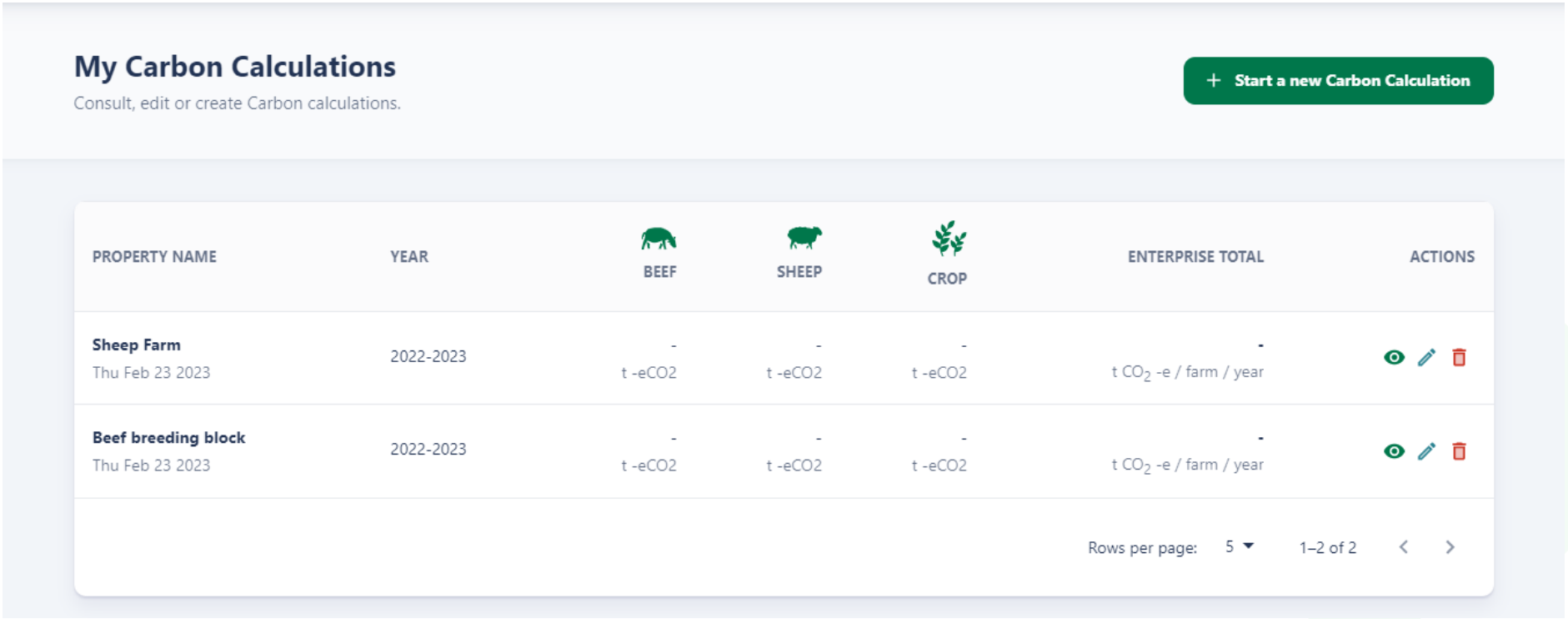
Australian Government | National Landcare Program

The University Of Queensland AUSTRALIA

WWF

mla MEAT & LIVESTOCK AUSTRALIA

MLA carbon calculator



CN30 | Carbon Neutral 2030

mla MEAT & LIVESTOCK AUSTRALIA

Biodiversity stewardship theme

Demonstration of management practices that enhance or improve on-farm biodiversity

Links with CIBO labs vegetation and groundcover mapping

Auditable but not audited (statutory declarations)

Indicators of habitat condition

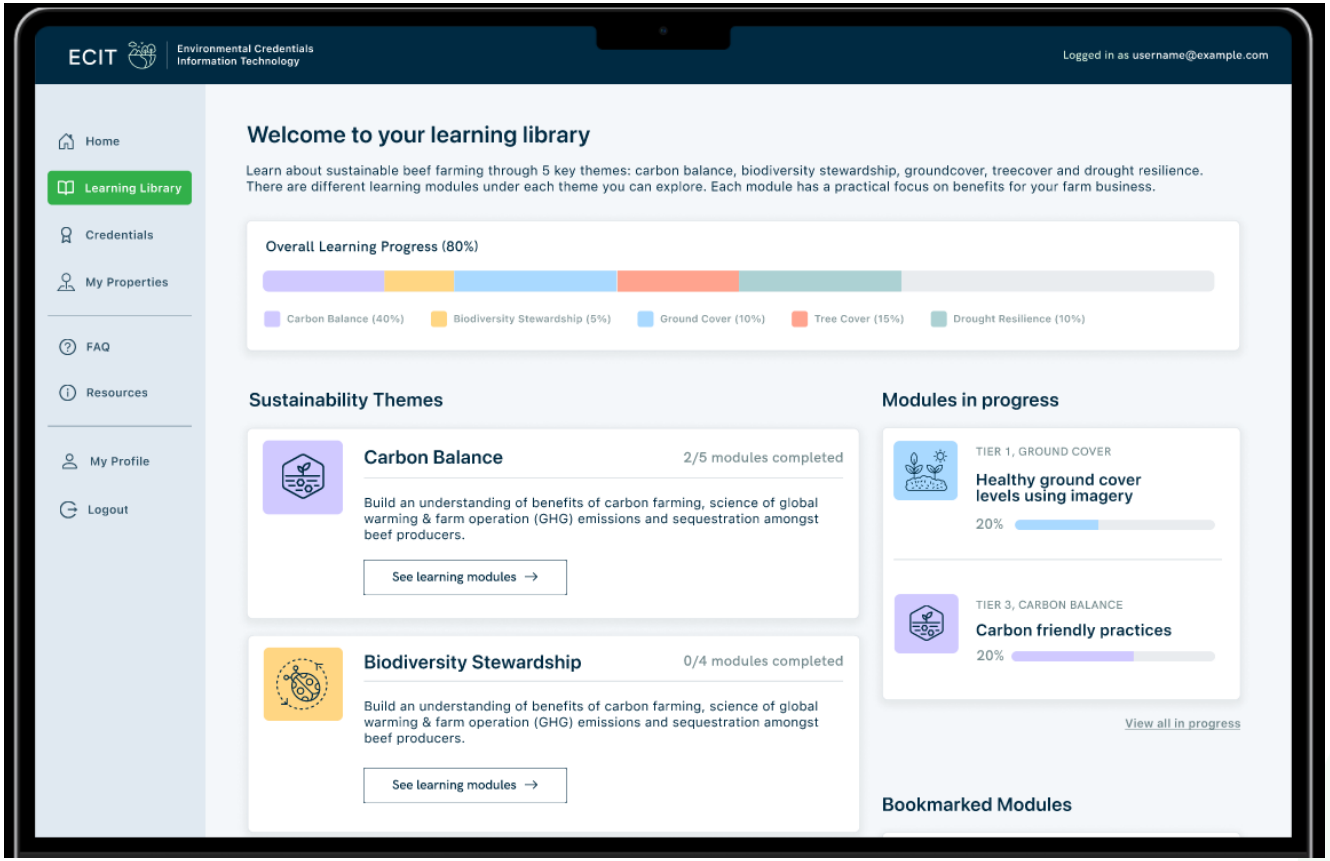
Australian Government | National Landcare Program

The University Of Queensland AUSTRALIA

WWF

mla MEAT & LIVESTOCK AUSTRALIA

Learning modules



CN30 | Carbon Neutral 2030

mla MEAT & LIVESTOCK AUSTRALIA

Tiered Credentials

Tier 1: Aware

Tier 1 - Aware (learn & engage)

Have a login with myMLA (security), linked & selected one of their properties (PIC), completed all tier 1 learning modules

Tier 2: Actioned

Tier 2 – Actioned (measure & manage)

Completed tier 1, linked property to Cibo labs, selected report from carbon calculator, completed all tier 2 learning modules, completed biodiversity questionaire

Tier 3: Advanced

Tier 3 – Advanced (monitor & improve)

Completed a carbon account for 3 consecutive years, completed all tier 3 learning modules, completed the biodiversity questionnaire for 3 consecutive years, completed tiers 1 and 2.

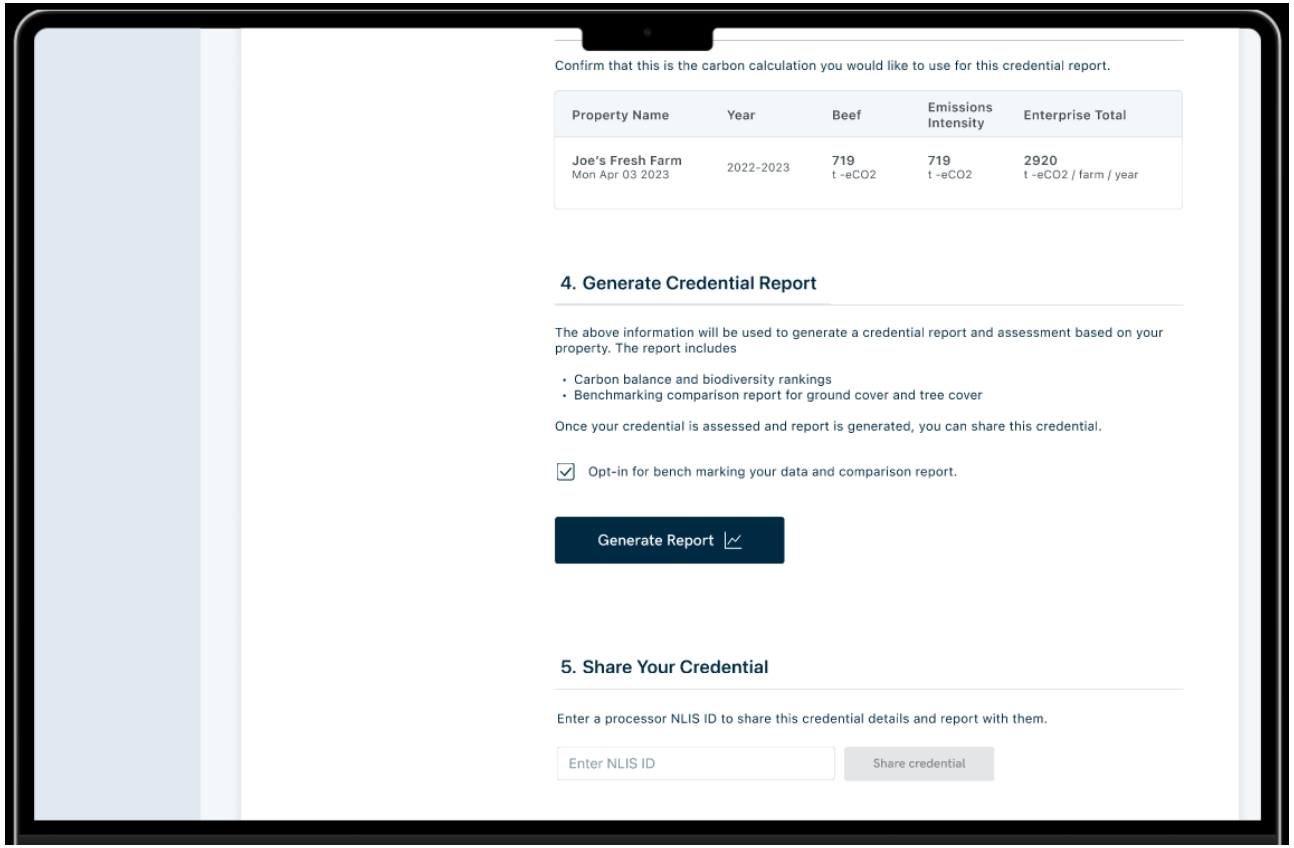
Australian Government | National Landcare Program

The University Of Queensland AUSTRALIA

WWF

mla MEAT & LIVESTOCK AUSTRALIA

Sharing credentials – share reports



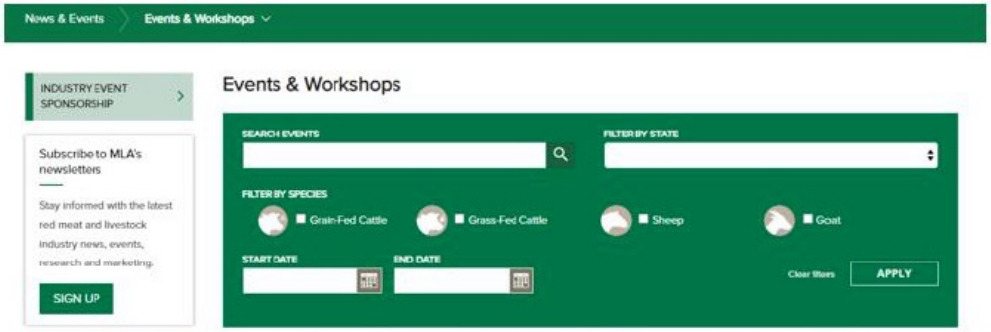
Australian Government | National Landcare Program

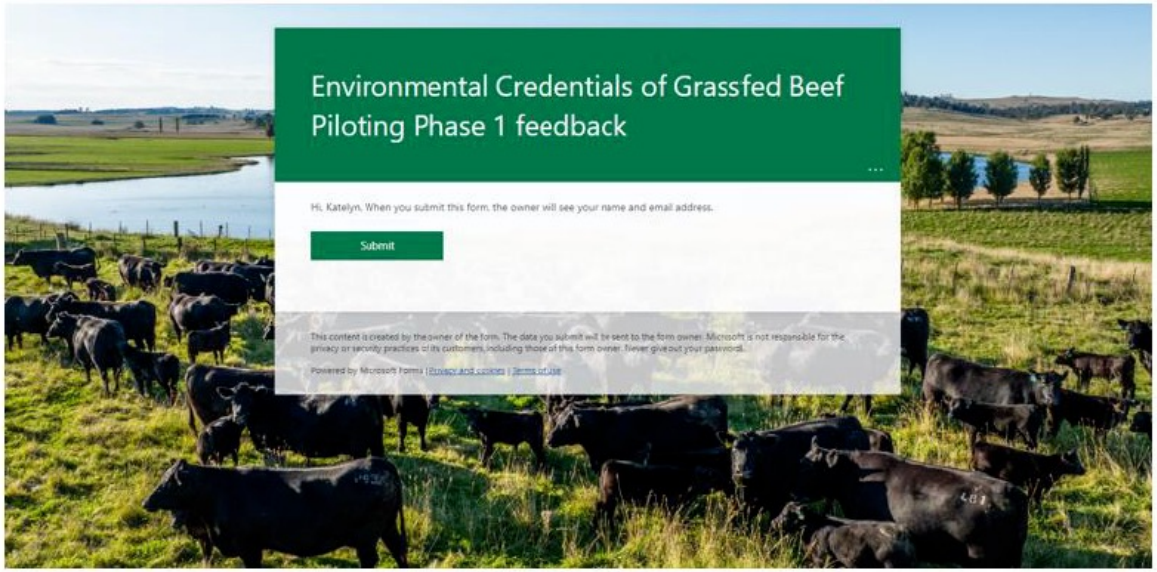
The University of Queensland AUSTRALIA

WWF

mla MEAT & LIVESTOCK AUSTRALIA

Piloting approach





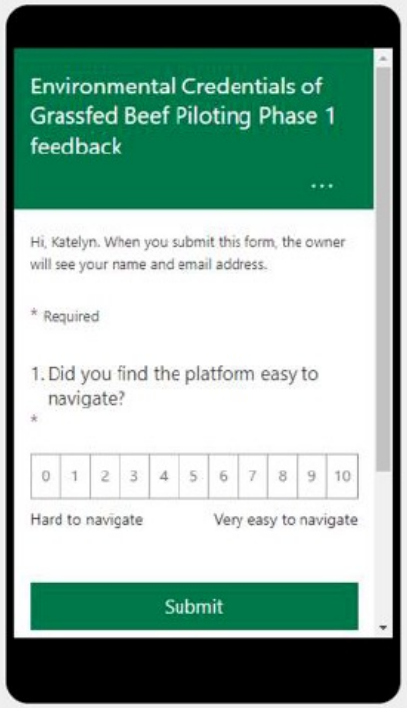
Webinar Registration

Carbon Neutral 2030 Program

Date: Wednesday October 20, 2021

Time: 8.00pm AEDT

The Australian red meat and livestock industry has set the ambitious target to be Carbon Neutral by 2030. This target means that by 2030, Australian beef, lamb and goat production, including lot feeding and meat processing, will make no net release of greenhouse gas (GHG) emissions into the atmosphere. MLA's Margaret Jewell will take the audience through:



MEAT & LIVESTOCK AUSTRALIA

What's next?

CN30 | Carbon Neutral 2030

mla MEAT & LIVESTOCK AUSTRALIA

What's next

- Portfolio review and refinement
- Continue to explore emissions reduction/carbon storage technologies
- Continue to ready the industry for adoption of technologies and data provision
- Continue to evolve carbon calculator and environmental credentials platform (ECGB stage 2?)
- Continue to monitor climate science knowledge generation to ensure targets remain appropriate, achievable, and deliver industry benefits

CN30 | Carbon Neutral 2030

mla MEAT & LIVESTOCK AUSTRALIA


Thank you ☺
23
CN30 | Carbon Neutral 2030
mla
MEAT & LIVESTOCK AUSTRALIA