



MLA Sustainability R&D *update*

Presented by Dr Margaret Jewell

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Environmental Credentials

What's next?

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

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

The Australian red meat industry:

LOWERED
it's greenhouse
emissions by
64.8%
since 2005

EMITS
51.3Mt
CO₂-e per year
down from
145.8Mt CO₂-e pa

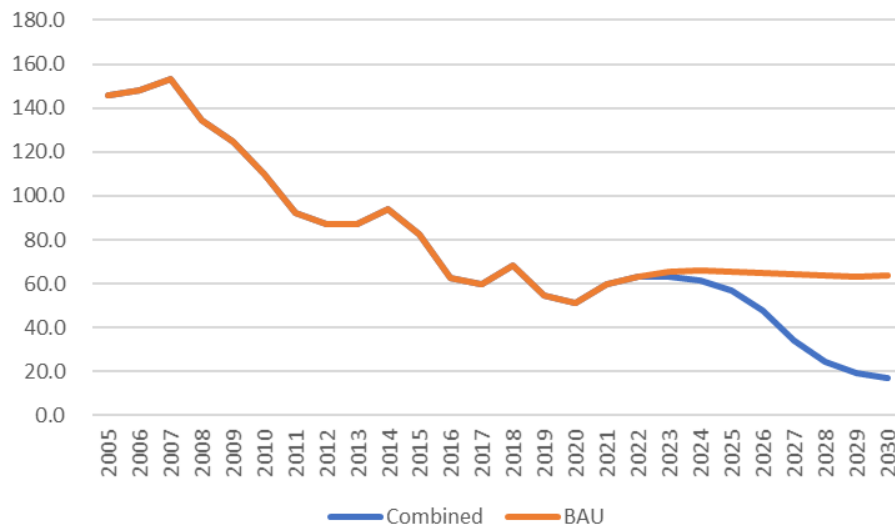
CONTRIBUTES
10.3%
of national emissions
down from
22% in 2005

>\$140 million invested since 2017

Carbon neutral vs Climate neutral

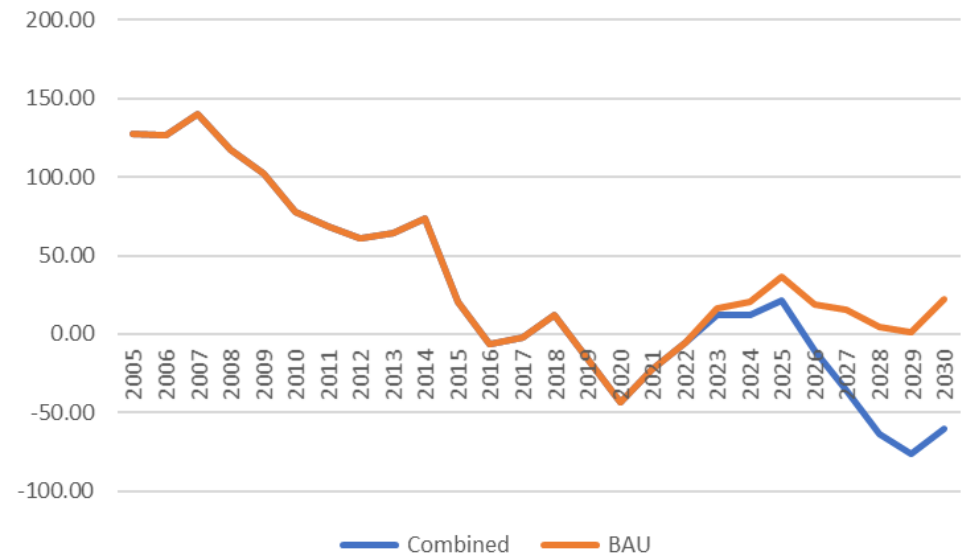
Carbon neutral:

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

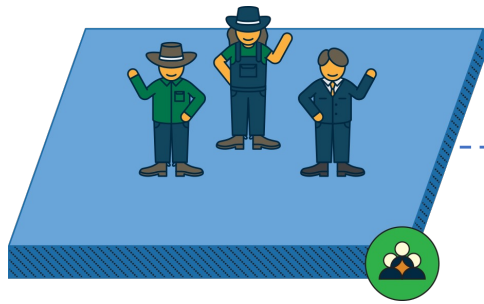


Climate neutral:

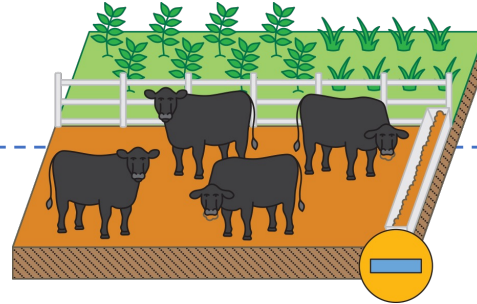
No further increase temperature; metrics are **GWP*** and **Radiative Forcing**, direct methane reduction (30-60%).



CN30 roadmap

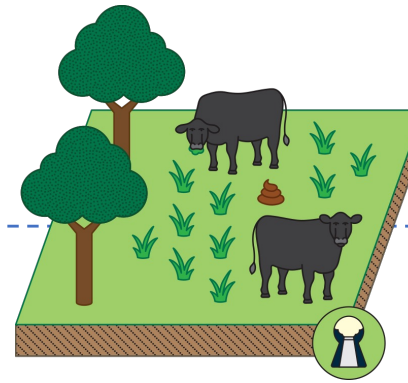


Industry leadership



GHG emissions avoidance

Grazing properties
Feedlots
Processing facilities



Carbon storage

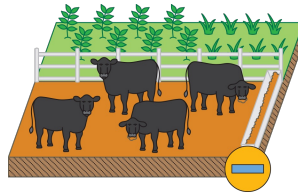
Grazing properties



Integrated management systems

Rapid adoption
Carbon accounting
Measurement and reporting

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

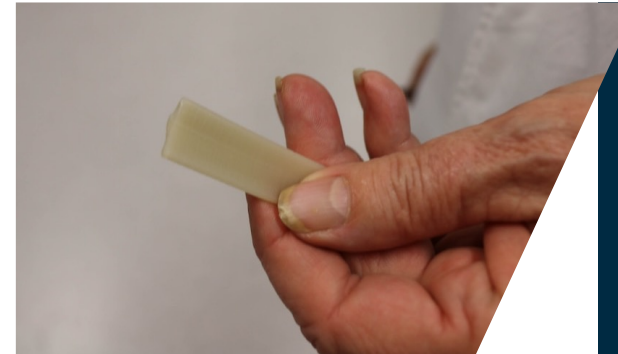
“Cows fed small amounts of seaweed burp 86% less in methane trial.”

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





National
Landcare
Program



Environmental Credentials for Grassfed Beef

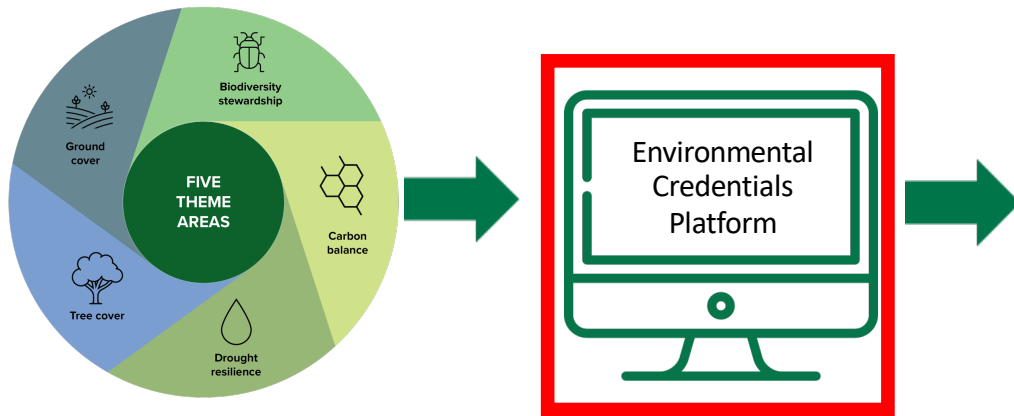
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Concept



Credentials






MLA carbon calculator

My Carbon Calculations

Consult, edit or create Carbon calculations.

[+ Start a new Carbon Calculation](#)

PROPERTY NAME	YEAR	 BEEF	 SHEEP	 CROP	ENTERPRISE TOTAL	ACTIONS	
Sheep Farm Thu Feb 23 2023	2022-2023	-	-	-	-	t -eCO₂ t -eCO₂ t -eCO₂ t CO₂ -e / farm / year	👁️ ✎ 🗑️
Beef breeding block Thu Feb 23 2023	2022-2023	-	-	-	-	t -eCO₂ t -eCO₂ t -eCO₂ t CO₂ -e / farm / year	👁️ ✎ 🗑️

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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



Learning modules

The screenshot displays the ECIT Learning Library interface. At the top, it shows the ECIT logo and 'Environmental Credentials Information Technology' on the left, and 'Logged in as username@example.com' on the right. A sidebar on the left contains navigation links: Home, Learning Library (highlighted), Credentials, My Properties, FAQ, Resources, My Profile, and Logout.

The main content area is titled 'Welcome to your learning library' and includes a brief introduction: 'Learn about sustainable beef farming through 5 key themes: carbon balance, biodiversity stewardship, groundcover, treecover and drought resilience. There are different learning modules under each theme you can explore. Each module has a practical focus on benefits for your farm business.'

Overall Learning Progress (80%)

Theme	Progress
Carbon Balance (40%)	40%
Biodiversity Stewardship (5%)	5%
Ground Cover (10%)	10%
Tree Cover (15%)	15%
Drought Resilience (10%)	10%

Sustainability Themes

- Carbon Balance** (2/5 modules completed)
Build an understanding of benefits of carbon farming, science of global warming & farm operation (GHG) emissions and sequestration amongst beef producers.
[See learning modules →](#)
- Biodiversity Stewardship** (0/4 modules completed)
Build an understanding of benefits of carbon farming, science of global warming & farm operation (GHG) emissions and sequestration amongst beef producers.
[See learning modules →](#)

Modules in progress

- TIER 1, GROUND COVER: Healthy ground cover levels using imagery** (20%)
- TIER 3, CARBON BALANCE: Carbon friendly practices** (20%)

[View all in progress](#)

Bookmarked Modules

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 questionnaire



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.



Sharing credentials – share reports

Confirm that this is the carbon calculation you would like to use for this credential report.

Property Name	Year	Beef	Emissions Intensity	Enterprise Total
Joe's Fresh Farm Mon Apr 03 2023	2022-2023	719 t -eCO2	719 t -eCO2	2920 t -eCO2 / farm / year

4. Generate Credential Report

The above information will be used to generate a credential report and assessment based on your property. The report includes

- Carbon balance and biodiversity rankings
- Benchmarking comparison report for ground cover and tree cover

Once your credential is assessed and report is generated, you can share this credential.

Opt-in for bench marking your data and comparison report.

[Generate Report](#)

5. Share Your Credential

Enter a processor NLIS ID to share this credential details and report with them.

[Share credential](#)

Piloting approach

News & Events > Events & Workshops

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Subscribe to MLA's newsletters

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SEARCH EVENTS FILTER BY STATE

FILTER BY SPECIES

Grain-Fed Cattle Grass-Fed Cattle Sheep Goat

START DATE END DATE Clear filters APPLY

Environmental Credentials of Grassfed Beef Piloting Phase 1 feedback

Hi, Katelyn. When you submit this form, the owner will see your name and email address.

Submit

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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:



Environmental Credentials of Grassfed Beef Piloting Phase 1 feedback

Hi, Katelyn. When you submit this form, the owner will see your name and email address.

* Required

1. Did you find the platform easy to navigate?

0 1 2 3 4 5 6 7 8 9 10

Hard to navigate Very easy to navigate

Submit



What's next?

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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

Thank you 😊

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