MEAT & LIVESTOCK AUSTRALIA mla EDGE NETWORK

Carbon EDGE

Taking carbon from a concept to an action plan

Carbon EDGE is a new two-day training program for the red meat industry, providing participants with an understanding of the opportunities for emissions reduction and carbon storage activities in a livestock grazing business.

Modules and key topics covered

1. Greenhouse gases 101

1. What is a greenhouse gas?
- Why do we always talk about carbon?
- Global warming potentials
- Why are atmospheric greenhouse gas levels important?
- Global trends, the Paris Agreement and Australia's commitments

2. Where do greenhouse gases come from in a livestock production system?
- Scope 1, 2 and 3 emissions
- Carbon, nitrogen and methane cycles in agriculture

3. Australian national and agricultural emissions profiles
- National inventory
- Typical emissions inventories in livestock-based systems

4. ACCU scheme and other policy drivers
- Emissions Reduction Fund
- International trade agreements
- Australian red meat industry carbon neutral by 2030

2. Greenhouse gas accounting

1. What is greenhouse gas accounting?

2. Quantifying emissions
- Data preparation
- Calculating emissions
- Carbon Calculators

3. Interpreting your results
- Tools for quantifying sequestration by vegetation or soils

3. Carbon credits and carbon neutrality

1. Managing your greenhouse gas account
- Demonstrating your carbon position
- Know and show with data
- Certifying entities
- Steps to carbon neutrality

2. Carbon farming projects
- Australian Carbon Credit Units (ACCU) scheme
- Registering a project with the ACCU scheme
- Voluntary carbon market
- Nature based markets

4. On-farm emissions

Practices and technologies to reduce on-farm GHG emissions

1. Genetics and husbandry practices
- Improving reproductive rates and decreasing mortality
- Reproductive efficiency in cattle
- Reproductive efficiency in sheep
- Decreasing mortality
- Mortality in cattle
- Mortality in sheep
- Increasing growth rates
- Improving genetics

2. Grazing land management, forage types and diet
- Grazing land management
- Pasture and legumes
- Dietary composition
- Plant breeding

3. Feed additives
- Vaccination
- Early life programming

4. Fertiliser application
- Right source
- Right rate
- Right time
- Right place
- Legumes and nitrogen

5. Efficiency of fuel and energy usage

6. Renewable energy

5. On-farm sequestration

Increasing carbon sequestration

1. Trees
- How does vegetation sequester carbon?
- Opportunities for action

2. Healthy soils
- What is soil organic matter (SOM)?
- What is soil organic carbon (SOC)?
- How much carbon is in my soil?
- Limitations to building SOM and SOC
- Management practices to increase soil carbon

Carbon EDGE has been developed by Meat & Livestock Australia