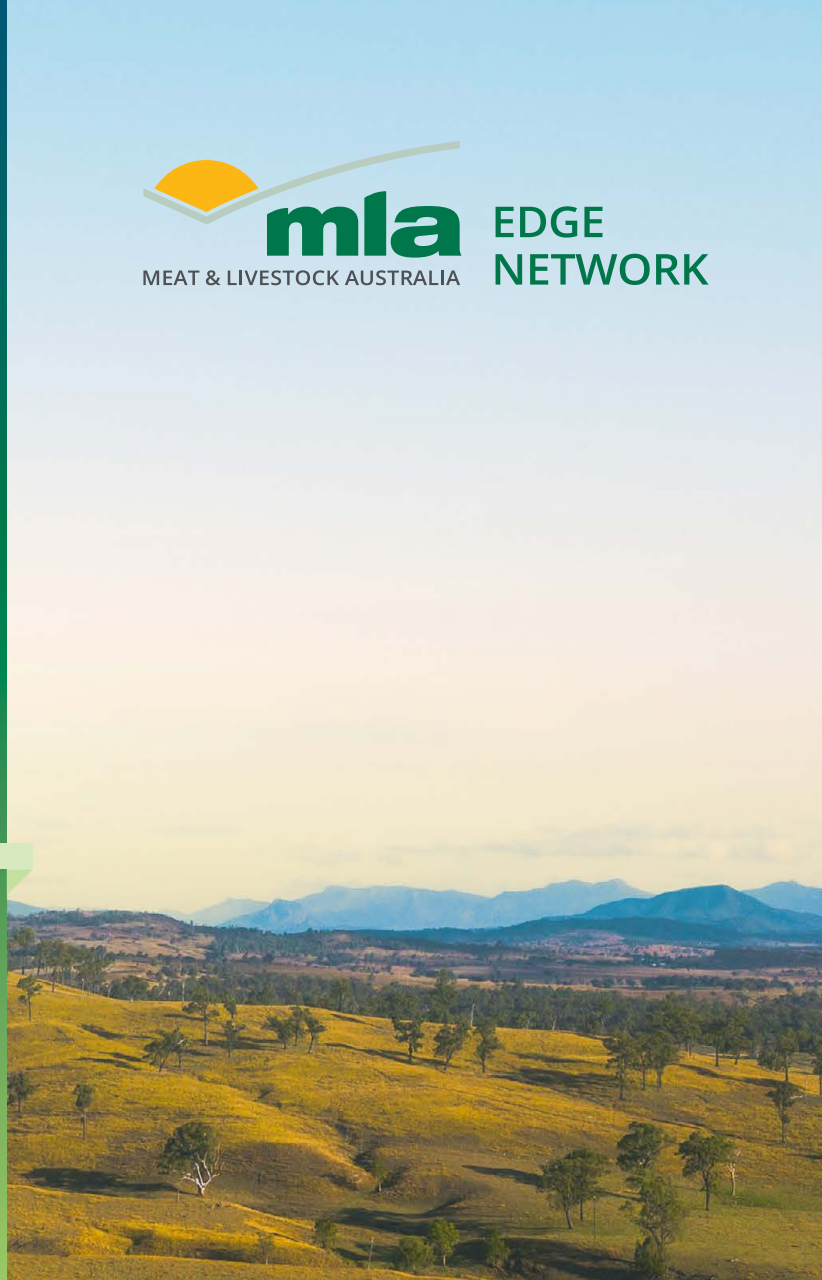


# Carbon EDGE

## 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. Emissions Reduction Fund and other policy drivers

- Emissions Reduction Fund
- International trade agreements

- Australian red meat industry carbon neutral by 2030

### 2. Greenhouse gases 101

#### 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. 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

#### 5. Efficiency of fuel and energy usage

#### 6. Renewable energy

### 4. 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

### 5. Carbon credits and carbon neutrality

#### 1. Managing your greenhouse gas account

- Demonstrating your carbon position

#### 2. Carbon farming projects

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