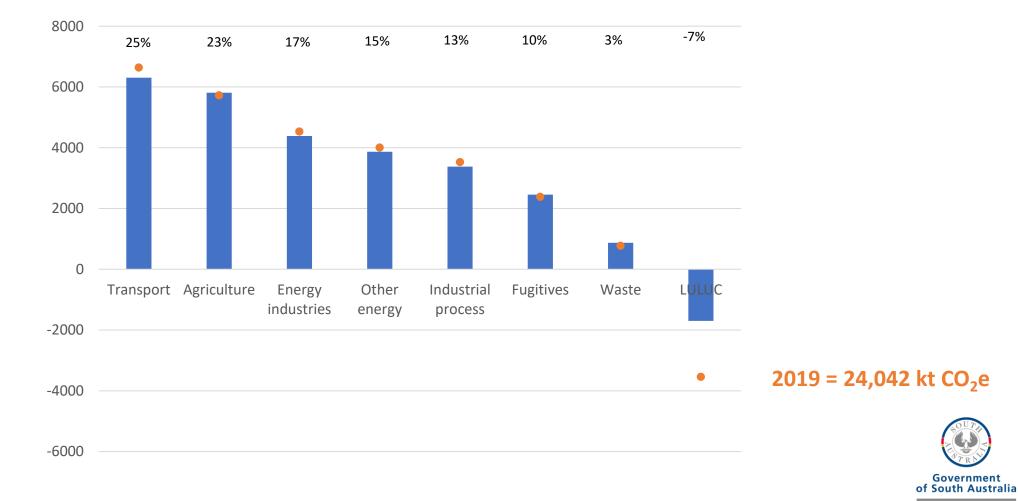
Towards net zero understanding carbon markets and their drivers

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South Australia's emissions

Total emissions = 25,376kt CO₂e (2020)



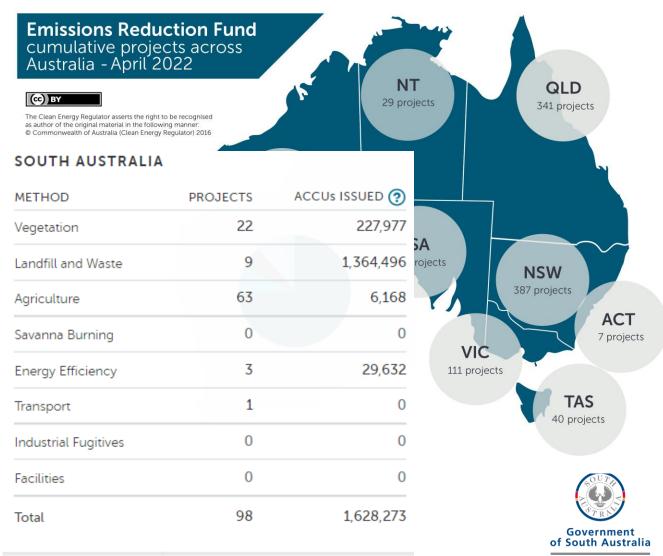
SA agricultural emissions

	2020		2019	
Source	ktCO2 e	% agriculture total	ktCO2 e	% agriculture total
Enteric fermentation	3,669	63.1%	3,680	64.2%
Manure management	507	8.7%	525	9.1%
Agricultural soils	1,355	23.3%	1,269	22.1%
Field burning of agricultural residues	29	0.5%	29	0.5%
Liming	40	0.7%	40	0.6%
Urea application	210	3.6%	181	3.2%

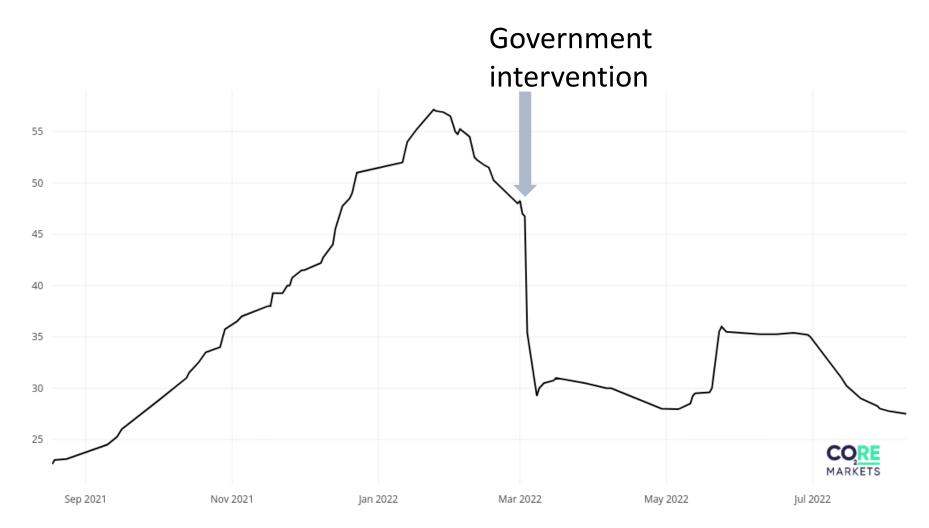


Australian Carbon Credit Units

- Australian Carbon Credit Units (ACCUs) most common trading unit in Australia
- 1 ACCU = 1t CO₂e sequestered or avoided
- Accrued through Emissions Reduction Fund (ERF) projects



ACCU spot price





Source: renewableenergyhub.com.au

Trading ACCUs

Compliance market (safeguard mechanism)

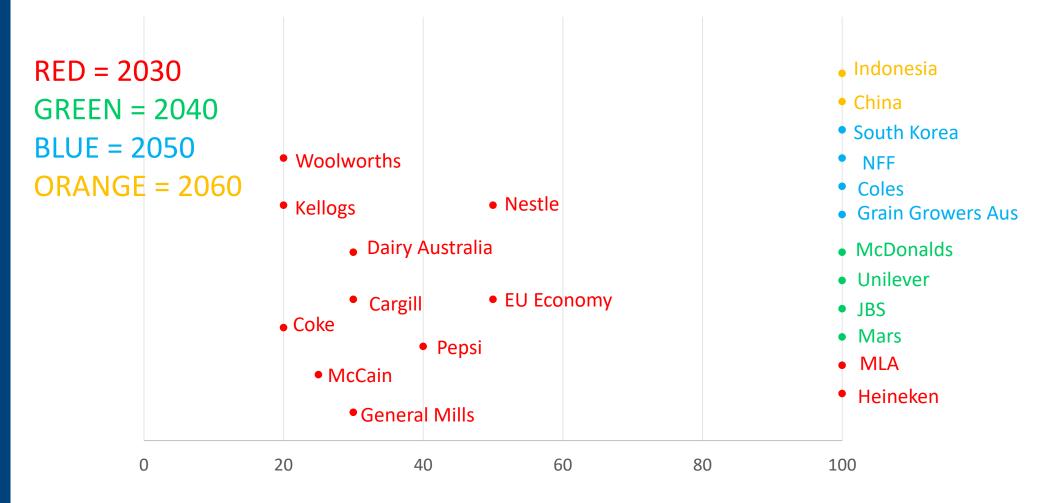
- Ensures large corporations do not exceed baseline emissions registered under the Kyoto Agreement.
- Makes provisions for businesses to use or purchase offsets to meet baseline requirements

Voluntary market

- Businesses wanting to offset emissions (airlines, corporate entities)
- Meeting government commitments and policy



Market drivers



Carbon Neutrality



Banks

	Net zero commitment of lending portfolio	\$ commitment to carbon financing
ANZ	2050	\$50 billion by 2025
CBA	2050	\$15 billion by 2025
Westpac	2050	\$15 billion by 2025
NAB	2050 51% ↓ by 2025	\$70 billion by 2025



Co-benefits

The indirect benefits that occur as a result of carbon farming.

Sec Environmental	ີ Social	
 Improved air, water and soil quality 	Increased social capitalImproved animal	 Increased farm profitability
Biodiversity	welfare	Improved farm
Sustainable pest	Increased human	productivity
andweed	capital	Diversified revenue
management	 Indigenous community 	streams for landholders
Sustainable land use	empowerment	 New skills and career
management	Better livelihoods and	opportunities
 Improved coastal 	community cohesion	 Jobs on the land
ecosystems	Improved physical	 Investment in regions and

and mental health



Department of Primary Industries and Regions

rural communities

Source: adapted from CMI carbon farming roadmap

Emissions in grazing systems

What are your emissions

What are your drivers

Emissions reductions opportunities

- Sources
- Sinks
- Footprint/ baseline
- Benchmark
- What data is needed to develop a footprint?

- Market access
- Carbon markets
- Co-benefits
- Enhanced productivity
- Environmental stewardship

- Sequestration
- Emissions reduction
- Revegetation
- Integrated Farm Management

