



Australian Government

Department of Foreign Affairs and Trade

FLARING AND METHANE MANAGEMENT IN AUSTRALIA

**Technical Expert Meeting on Non-CO₂ greenhouses,
Bonn ADP, October 2014**

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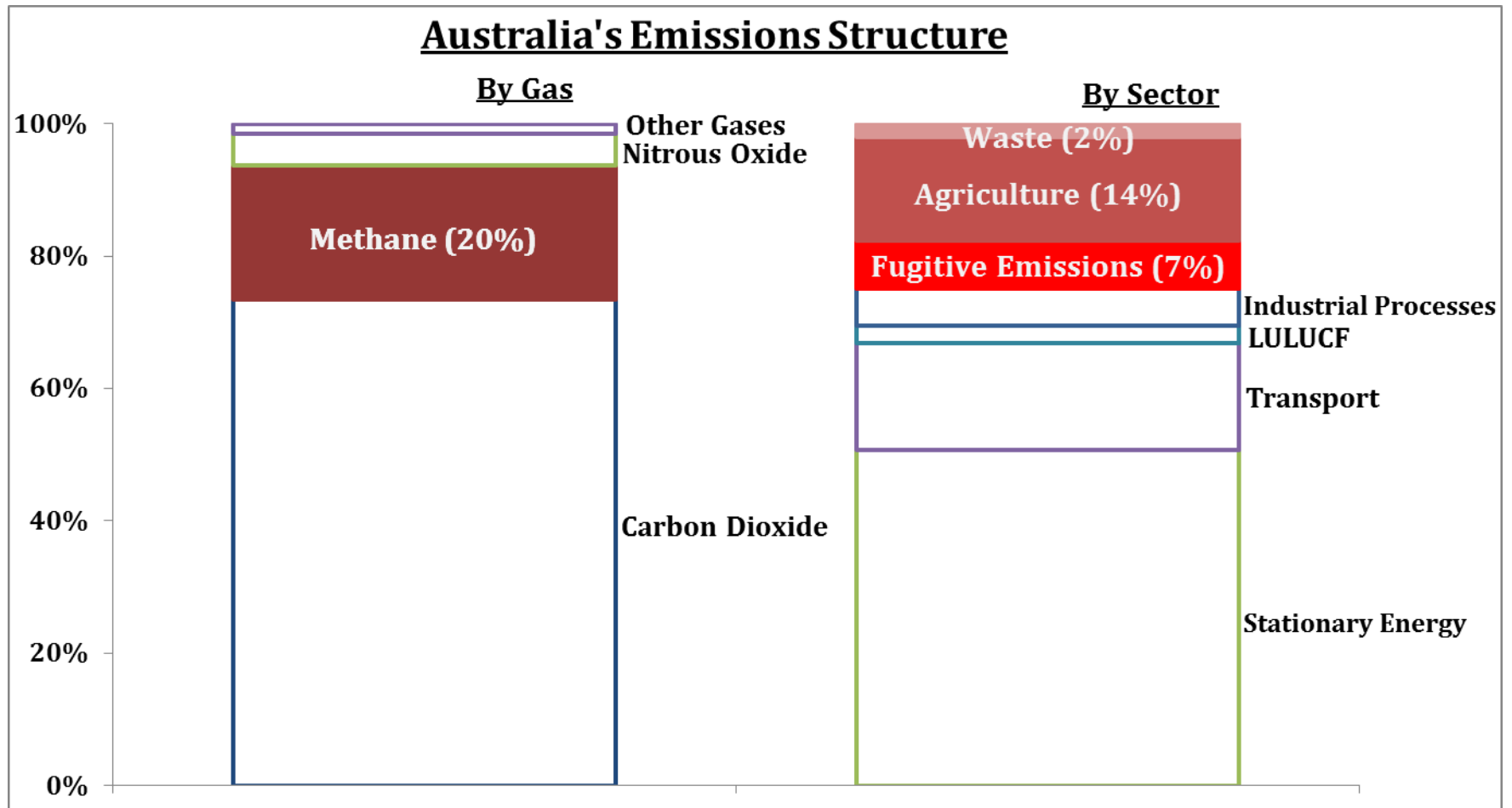
Overview

- 1. Coal Mining Abatement Technology Support Package (CMATSP)**
- 2. Carbon Farming Initiative (CFI)**
- 3. Emissions Reduction Fund (ERF)**





Methane emissions in Australia



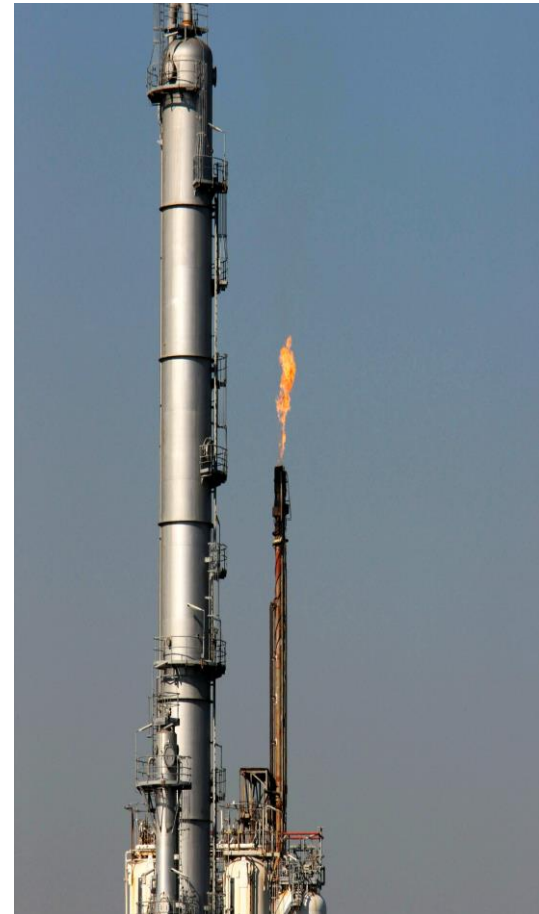


1. The Coal Mining Abatement Technology Support Package (CMATSP)

- ❑ **Supported \$80 million of investment:**
 - \$35 million (Australian Government)
 - \$45 million (industry co-contribution)

- ❑ **Technologies supported:**
 - Avoidance measures and pre-drainage
 - Flaring and ventilation air methane (VAM)

- ❑ **Safety practices and knowledge sharing**





2. The Carbon Farming Initiative

❑ 12 methane methods:

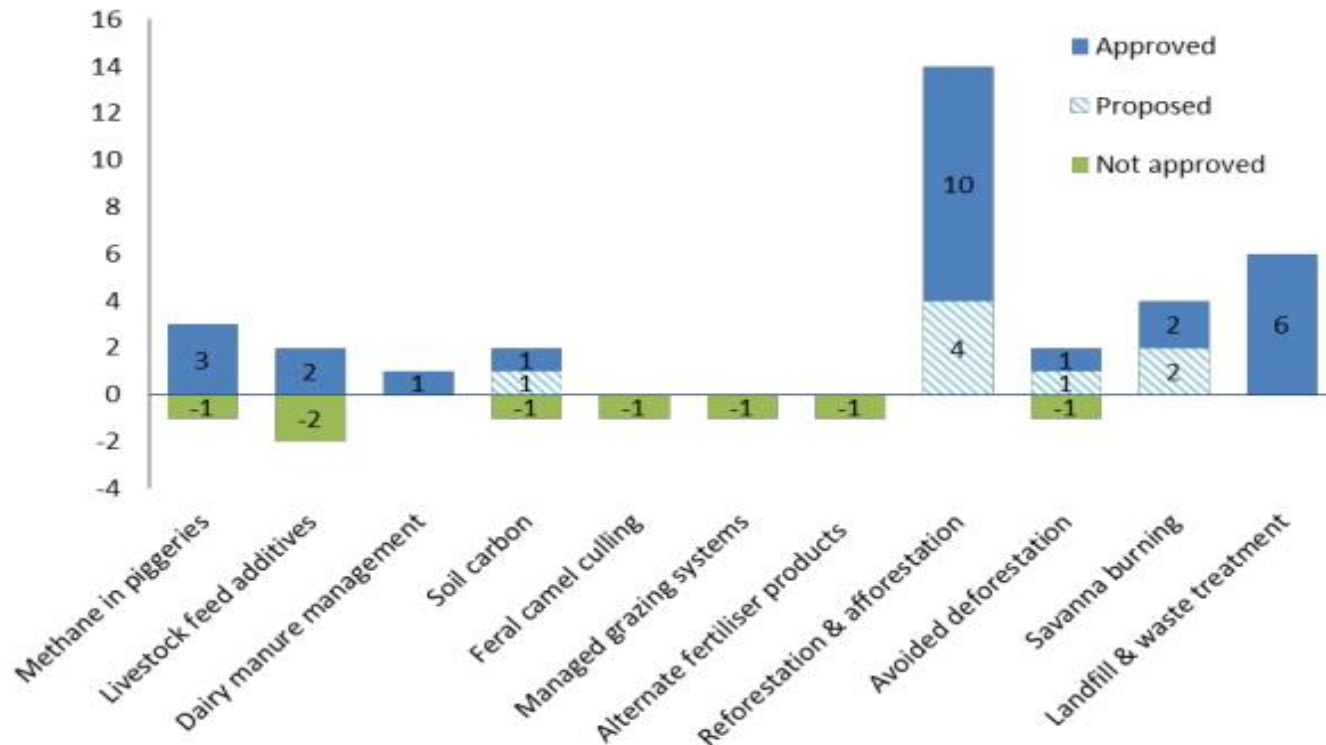
- 6 million methane-based credits created since 2011 (9 million all gases)

❑ Supply of units determined by market demand for abatement.





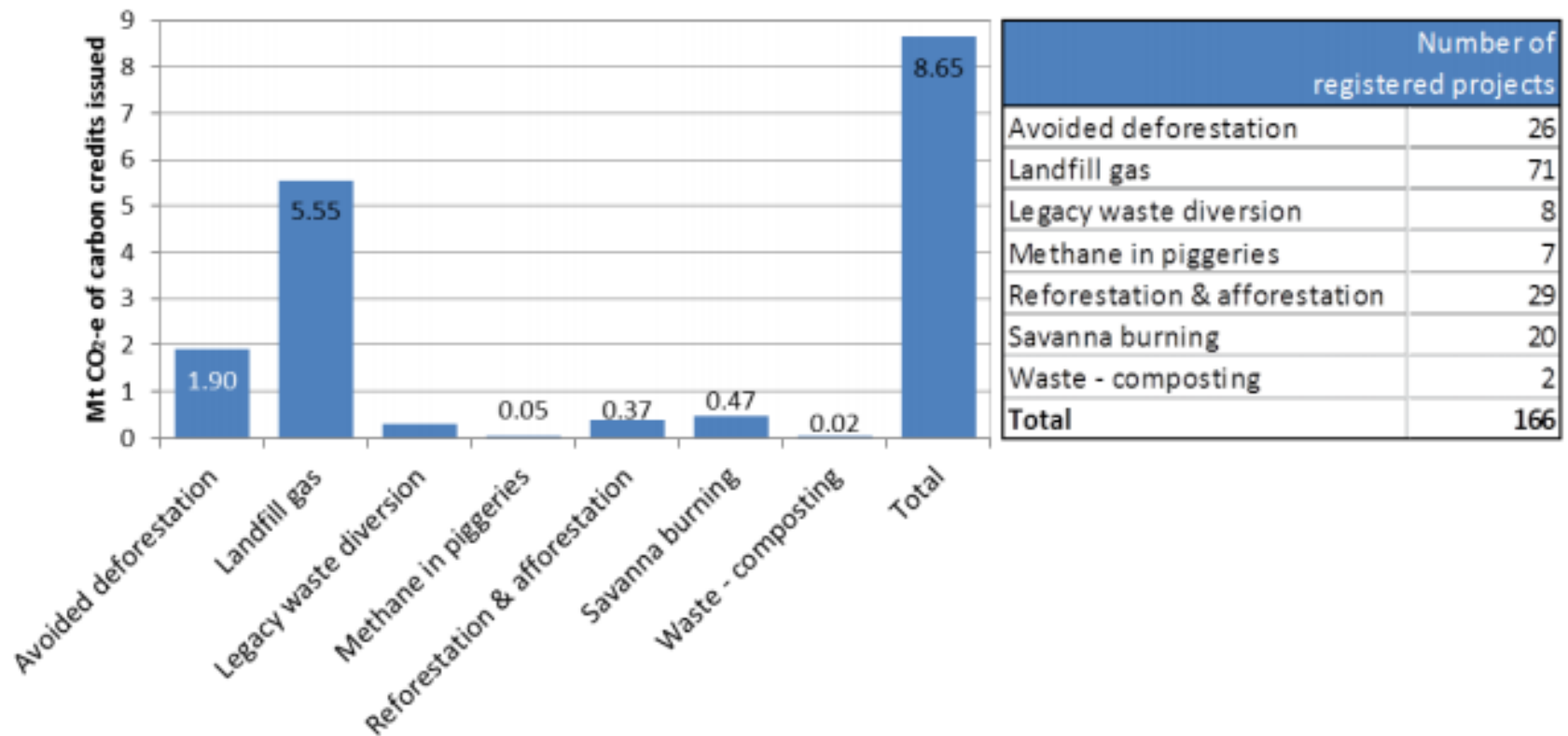
Carbon Farming Initiative: Methodologies by project type – 12 approved methane methods



Source: Climate Change Authority based on Department of the Environment (2014)



Carbon Farming Initiative: Quantity of credits issued and numbers of projects



Source: Climate Change Authority based on Clean Energy Regulator (2014b)

Note: Data current as at 30 September 2014



3.The Emissions Reduction Fund

❑ \$2.55 billion over 4 years

- Streamlines CO₂ and non-CO₂ reduction activity
- Builds on CFI to cover all sectors

❑ 4 methane methods released for public consultation

- Government purchase through reverse auction
- Payment made on delivery of abatement



Wikimedia Commons, 2014





Thank you

References

CFI: <http://www.cleanenergyregulator.gov.au/Carbon-Farming-Initiative/Pages/default.aspx>

ERF: <http://www.environment.gov.au/climate-change/emissions-reduction-fund>

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CMATSP funding recipients		
Recipient	Project	Description
Centennial Coal Company	Safety Duct and VAM-RAB Scale Up	Install direct coupled regenerative thermal oxidiser (RTO) and develop methodology for broader use.
University of Newcastle	Chemical Looping VAM Abatement Project	Piloting of novel VAM technology using chemical looping (VAMCO).
University of Newcastle	VAM Abatement Safety Project	Engineering for safe VAM capture ducts, an integral component of large-scale VAM needed in Australia.
CSIRO	Novel VAM Technologies and Evaluation Tool	Demonstrate three prototype technologies for avoiding and utilise methane.
Bulga Underground Operations	Methane Capture and Abatement Optimisation	Optimisation of mine gas drainage, ventilation systems and long wall post drainage efficiency.



CFI Methane methodology description	Number of Projects	Number of credits issued
1. Destruction of Methane from Manure in Piggeries-1.1	6	47,237
2. Destruction of Methane from Manure in Piggeries	Nil	Nil
3. Destruction of Methane from Piggeries using Engineered Biodigesters	Nil	Nil
4. Capture and Combustion of Methane in Landfill Gas from Legacy Waste: Upgrade projects	4	131,978
5. Capture and Combustion of Methane in Landfill Gas from Legacy Waste	67	5,523,055
6. Destruction of Methane Generated from Dairy Manure in Covered Anaerobic Ponds	Nil	Nil
7. Reducing by Feeding Dietary Additives to Milking Cows	Nil	Nil
8. Feeding Nitrates to Beef Cattle	Nil	Nil
9. Diverting Legacy Waste from Landfill for Process Engineered Fuel Manufacture	1	64,103
10. Diverting Legacy Waste from Landfill through a Composting Alternative Waste Technology	4	85,555
11. Diversion of Legacy Waste to an Alternative Waste Treatment Facility	3	148,369
12. Enclosed Mechanical Processing and Composting Alternative Waste Treatment	2	21,291