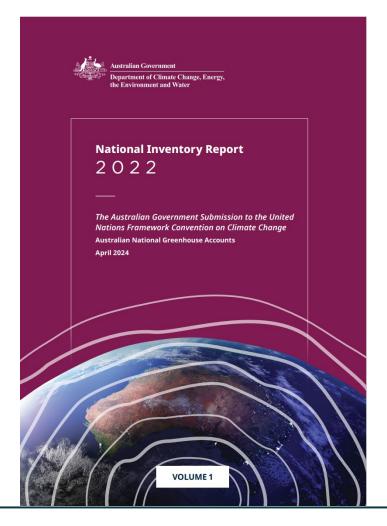
The NGER scheme: continuous improvement

Methane Guiding
Principles Masterclass

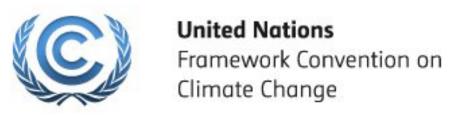
Brooke Perkins 20 May 2024



Australia's national greenhouse gas inventory





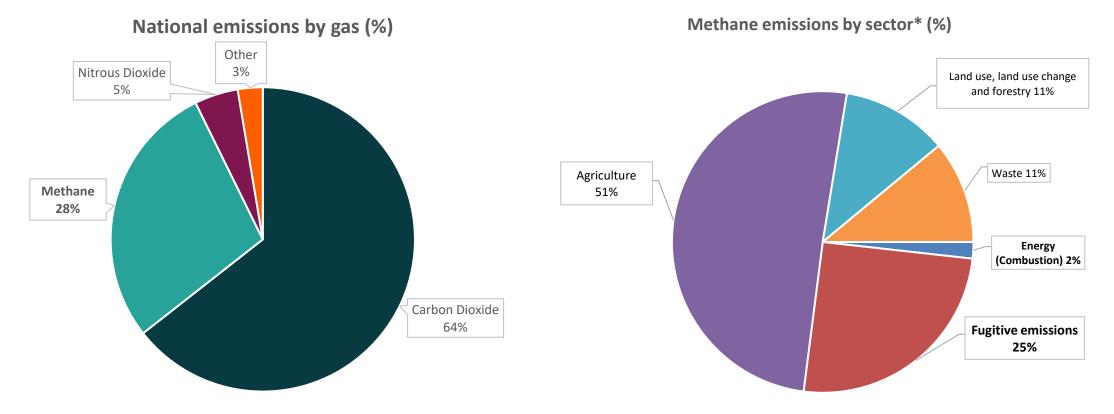




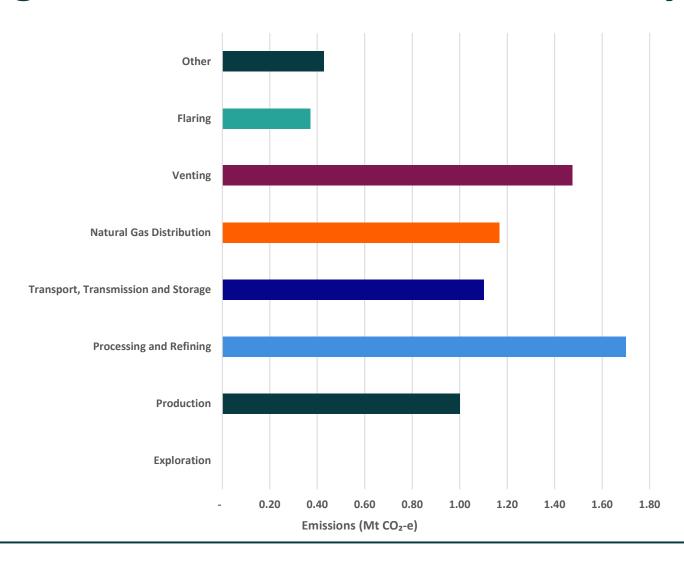
Australia's National Greenhouse Accounts



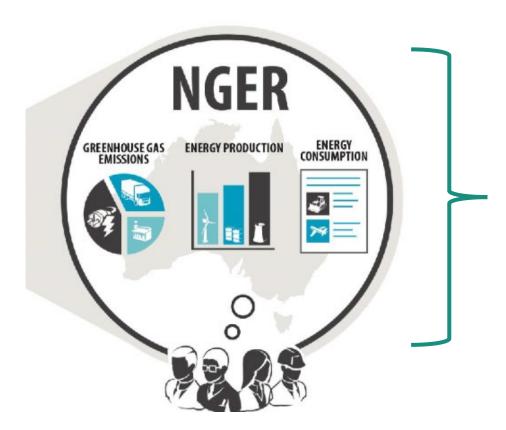
Snapshot: Australia's emissions: 2022



Oil and gas sector: Methane emissions by source 2022



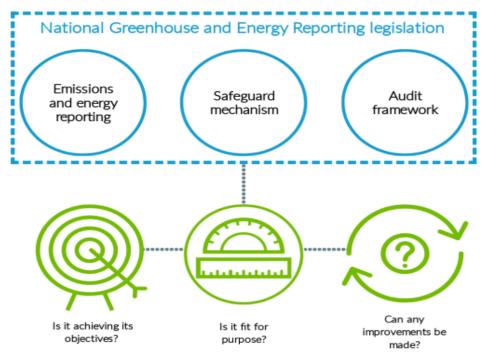
National Greenhouse and Energy Reporting scheme



- Key data source for the National Inventory
- Australia was amongst the first countries in the world to legislate such a program
- Remains one of the world's most comprehensive company emissions reporting systems
- Subject to continuous improvement
 - ✓ Annual reviews by DCCEEW
 - ✓ 5-yearly reviews by the Climate Change Authority

NGER scheme: 2023 Climate Change Authority review





- Performing well and compliance is high.
- 25 recommendations. 9 methane-related:
 - ➤ Phase out Method 1 options and establish higher order methods for all sources.
 - Review Integrated Gas Facility requirement to apply same methods across activities.
 - Develop a framework for facility-level use of top-down verification and reconciliation approaches, supported by further research.
 - Increase investment in methane detection/estimation infrastructure and capability.
 - Increase transparency of reported data.

NGER scheme: 2024 proposed amendments



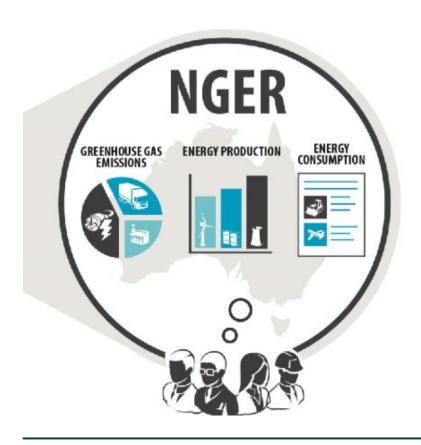
National Greenhouse and Energy Reporting (NGER) scheme 2024 Proposed Amendments



- Public consultation 29 April 24 May 2024
- Includes proposals relating to methane emissions from the oil and gas sector:
 - Venting
 - > Flaring
 - Mud-degassing
 - Produced formation water
 - Method transparency

NGER scheme: What's next? Improved/new methods

Guiding principles



Sound science and credible information

Regulatory best practice – clearly defined, implementable

Accurate emissions estimates – repeatable, verifiable, can inform the National Greenhouse Accounts

Estimates for a particular source are comparable between facilities

Minimises uncertainty

NGER scheme: What's next? Improved/new methods

What are your views?

Method 1

- Measure
 activity data
 (eg. tonnes of coal)
- Use default factors (eg. state-based emission factors)

Methods 2 & 3

- Requires
 greater level
 of sampling
 (e.g. methane
 content)
- Facility specific emission factor

Method 4

 Directly measure emissions (eg. in stacks) Existing barriers to moving to higher order methods?

How can methods better reflect onsite abatement?

What can we learn from international/domestic experience with new approaches?

How can we incorporate new tech in a way that's repeatable, comparable, verifiable and tech-neutral?

What Australia-specific research & analysis could support future improvements?

Thank you

Contact us: nationalgreenhouseaccounts@dcceew.gov.au

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