

FEnEx CRC News Update

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Dear Reader

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New flaring emissions method from FEnEx CRC study added to NGER legislation



FEnEx CRC's 2023 report *Improving fugitive emissions management in the Australian LNG industry* included a review of the methods for estimating methane emissions found in Australia's National Greenhouse and Energy Reporting (NGER) legislation.

The NGER Scheme is the framework used by Australia's corporations for reporting greenhouse gas emissions, and is overseen by the Department of Climate Change, Energy, the Environment and Water (DCCEEW).

Methane was a focus of the FEnEx CRC report because of its potency as a greenhouse gas, having a global warming potential 28-times that of CO₂.

A key recommendation from the FEnEx CRC report was to improve the NGER method for estimating methane

emissions from flaring. The report proposed a mass balance approach that correctly treats methane as uncombusted gas flowing from the flare to the atmosphere.

Following the report's release, FEnEx CRC met DCCEEW to discuss the results. FEnEx CRC is pleased to see that its proposed method will be added to the NGER legislation for the [2024-25 reporting year as a new Method 2B](#).

A common complaint about NGER methods that use generic factors to estimate emissions is that they are inaccurate. Furthermore, when actual measurements are used to construct methane emission inventories—as done by IEA for its Global Methane Tracker, for example—inventory totals are inconsistent with national totals compiled from self-reporting schemes like NGER.

FEnEx CRC hopes that the more accurate Method 2B provides industry with a better alternative for estimating flaring emissions and helps close the gap between measurements and factor-based estimates.

[Link to FEnEx CRC Fugitive Emissions Management report](#)

CRCs leading the way to Net Zero goals, generating billions in value for all Australians



Last week in Canberra Cooperative Research Australia (CRA) launched an independent study that confirms the venerable Cooperative Research Centres (CRCs) Program is generating billions of dollars in CO₂ abatement outcomes and decarbonisation-focused economic activity, creating thousands of jobs by unlocking substantial private sector R&D.

The report, undertaken by ACIL Allen, showcases the contribution of 13 CRCs/post-CRCs who are directly or indirectly supporting Australia's decarbonisation goals.

As one of 13 CRCs involved in the study, **FEnEx CRC** is a major contributor with 80% of the projects in the CRC are focussed on decarbonising Australia's energy production and export systems. More about the work of the CRC can be found on the [website](#).

Eric May, FEnEx CRC CEO said, "This influential report demonstrates the potential of CRCs to support Australia's energy transition and shows how they serve as an important cornerstone for government as it develops the plans for Net Zero Australia."

ACIL Allen estimates that this investment, which is only a subset of the full CRC investment, will generate an estimated \$4.8 billion in additional economic output for Australia, \$3.3 billion in cumulative undiscounted CO₂ abated, and thousands of jobs, from 2017-2032.

The report, titled *Mapping and quantification of CRCs' work on decarbonisation*, forecast that the contribution of this group of 13 CRCs over 2017-2032 will:

- Generate substantial economic activity: an increase of \$4.8 billion in Australia's economic output (GDP)
- Raise economic welfare across Australia: an increase of \$1.7 billion to Australia's real economy as a result of industry-led decarbonisation research and innovation.
- Create significant employment opportunities: 3,705 job years to 2032 are projected (an average of 265 FTE jobs years per year).
- Provide significant value for money: \$5.80 generated in additional economic output (GDP) for every dollar of investment and in-kind contributions.

View the Report, Fact Sheet and Case Studies Booklet on the [project website](#).

September Monthly Colloquium



Options for LNG plant decarbonisation

Presented by Luke McElroy and Mauricio Di Lorenzo.

FEnEx CRC's 2024 Commonwealth milestone report *Short- and long-term options for LNG plant decarbonisation* has been drafted and will shortly be circulated to Participants. The report provides an extensive review of decarbonisation technologies available to the LNG industry and analyses the technical readiness and economic feasibility of each technology.

The technologies covered in the report include alternative fuels, process electrification, and CCS. The report puts the LNG industry's use of decarbonisation technologies into a wider context by also examining carbon credits and the Safeguard Mechanism legislation.

To register for this webinar please provide your details on the [contact form](#).

Recent Publications

Our science publications and reports are updated on a monthly basis. Follow the links to see the latest releases:

- [Scientific publications](#)
- [Reports](#)

About FEnEx CRC

The Future Energy Exports Cooperative Research Centre (FEnEx CRC) is an Australian non-for-profit organisation established to future-proof energy exports through industrial-scale research and innovation. Australia has a long and very profitable heritage as an energy exporter. Now, our country has the opportunity to harness its world-class renewable energy resources and leverage the know-how, capability, infrastructure and supply chains of its existing LNG industry to cultivate a new, sustainable and competitive export industry and remain a leading provider of energy internationally.

Established in 2020 the FEnEx CRC is working to help Australia deliver on that opportunity by executing cutting-edge, industry-led research, education and training to help decarbonise Australian LNG while also establishing the capacity to produce and use clean hydrogen. This CRC bridges the gap between industry and academia through collaborative research projects, PhD scholarships and testing facilities, provides evidence-based advice to inform government policy development, and helps future-proof Australia's future workforce through its education and training program, and micro-credentials and professional development opportunities.

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