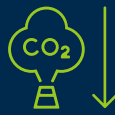


Case study: Hogan's Pocket near Mackay, QLD Biogas Capture and Abatement from Landfill Project

New LGI1000 flare integrated with the existing council flare and upgraded LFG system



Biogas Captured
323.6 thousand m³



Carbon Abatement
2979 tonnes
(t CO₂e - environmental benefit)



Seedlings Planted*
49.6 thousand seedlings
planted for 10 years
*carbon abatement equivalent
(t CO₂e)



Cars off the road*
643 (for the last 12
months)
*carbon abatement equivalent
(t CO₂e)

As of May 2026

Upgraded Regional Landfill Project More Than Doubles Landfill Gas Flows

Delivering rapid environmental impact and operational excellence for Mackay Regional Council and the community

The Hogans Pocket Landfill Gas Project is a progressive, long-term collaboration between LGI and Mackay Regional Council, demonstrating how advanced engineering can instantly optimise environmental outcomes.

Commencing on-site in late March 2026, LGI executed a comprehensive, multi-stage infrastructure modernisation program designed to maximise methane capture, ensure precise environmental compliance, and future-proof the region's asset management.

Critically, this is a voluntary biogas capture and abatement project. By proactively trapping methane at the source, this partnership significantly reduces greenhouse gas emissions, improves local air quality, generates Australian Carbon Credit Units (ACCUs), and supports Australia's national transition toward net-zero emissions.



Reducing methane emissions is a massive win for both our local environment and our community. This seamless upgrade by LGI has drastically optimised our gas capture performance at minimal cost to ratepayers, moving us rapidly toward our long-term sustainability goals

Mark Goodman

Waste Services Coordinator, Mackay Regional Council.

The engineering impact was immediate. Following the completion of the expansion works in June 2026, the **volume of extracted landfill gas (LFG) more than doubled within just two months.** This drastic increase in efficiency highlights the accuracy of LGI's design, drilling execution, and continuous system optimisation.



Innovative Green Integration

In parallel with LGI's works, Mackay Regional Council trialed a BeneVap leachate management system to minimise leachate volumes. Further highlighting LGI's commitment to resource integration, the upgraded gas system was integrated with the Council's newly commissioned BeneTerra thermal evaporation leachate management system ("BeneVap"). The unit at Hogans, affectionately named 'Opal', uses LGI's captured landfill gas as a direct, cost-effective, and green energy source to process leachate, completely replacing the need for traditional diesel. This integration offers Council an incredibly economical, eco-friendly, and circular solution to liquid waste management.

- ✓ Immediate improvement doubled gas capture and abatement within two months.
- ✓ Environmental stewardship delivered measurable, immediate and irreversible abatement.
- ✓ Financial resilience secured ongoing savings and carbon credits for the council.
- ✓ Community health improved by destroying methane emissions and reducing odours.
- ✓ Resource recovery utilised captured energy to power leachate management.

By trusting LGI to operate, maintain, and continually upgrade the gas drainage network, Mackay Regional Council ensures its waste infrastructure scales seamlessly alongside changing site dynamics.

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LGI1000 flare and "Opal" (Benevap leachate treatment unit) integrated to the upgraded LFG system