



**Biogas Captured**  
453.1 thousand m<sup>3</sup>



**Carbon Abatement**  
4304 tonnes  
(t CO<sub>2</sub>e - environmental benefit)



**Seedlings Planted**  
71.7 thousand seedlings  
planted for 10 years



**Cars off the road**  
930 (for the last 12  
months of carbon  
abatement)

## Regional Sustainability in Action - Warwick Landfill

As of January 2026

### Transforming a carbon liability into a community asset at no cost to ratepayers

The Southern Downs Regional Council (SDRC) has launched a decisive initiative to tackle its largest single source of carbon emissions. By partnering with LGI Limited, the Council is converting the Warwick Waste Management Facility from a passive methane emitter into a controlled carbon abatement project.

Prior to this project, unflared methane from the landfill contributed approximately 65 per cent of the Council's total greenhouse gas emissions. The new infrastructure, officially opened in November 2025, directly addresses this challenge through a sophisticated extraction network.

LGI installed 12 active gas extraction wells, drilled to a depth of 40 metres, connected by a complex web of underground piping. This system channels biogas (comprising roughly 50 per cent methane) into a dedicated enclosed flaring unit. The result is a measurable, immediate, and irreversible reduction in harmful emissions.





## Key Benefits & Strategic Outcomes

The Warwick Landfill Gas Abatement Project delivers a comprehensive suite of environmental, financial, and operational advantages, securing a win-win outcome for the Council and the community. The system provides:

- ✓ **High-Impact Decarbonisation:** Destroys methane, which is ~28 times more potent than carbon dioxide, directly lowering the region's carbon footprint.
- ✓ **Financial Resilience:** Removes the capital burden from the Council while creating a new revenue source via the carbon market.
- ✓ **Community Health:** Active vacuum extraction minimises fugitive gas migration, resulting in a "less gassy" facility with reduced local odours.
- ✓ **Tailored Engineering:** Proves that world-class gas capture engineering is viable for small regional landfills, not just major metropolitan sites.
- ✓ **Data Collection:** New data collected on waste composition, leachate levels, waste decomposition status and more enhances future landfill management.

Crucially, this environmental upgrade is delivered at no cost to ratepayers. LGI funds the entire capital and operational expenditure. Instead of costing the community, the project generates revenue through the creation and sale of Australian Carbon Credit Units (ACCUs), providing the Council with a royalty stream while simultaneously managing the environmental risk of the site.

07 3711 2225  
enquiries@lgi.com.au  
[www.lgi.com.au](http://www.lgi.com.au)

