Hawkesbury regional landfill goes green

The Hawkesbury City Waste Management Facility is reducing its impact on the environment and the Hawkesbury City Council is working hard to reach its goal of net zero emissions by 2030.

The Net Zero Emissions and Water Efficiency Strategy forms part of a broad environmental strategy designed to make a huge difference.

It includes collaboration on the design, installation, expansion and operation of a biogas capture and management system. From this regional landfill we've recovered a lot of biogas since 2015. By reducing methane emissions, we've contributed to significant reductions in CO2e emissions – at no cost to the council. For a relatively small landfill, the numbers to date are staggering:

Here are the stats so far*

Biogas Captured m3 **16.5 million**

12 months of carbon abatement equivalent to (t CO2e) **5918 cars off the road for a year**

Australian Carbon Credit Units (ACCUs) created **42 thousand**

Emissions (t CO2e) reduced by **156 thousand tonnes**

That's the equivalent of planting 2.6 million seedlings over the next 10 years!

A landfill continuously emits biogas. Even on a small site, this can account for 60% to 80% of a council's carbon emissions – so the Hawkesbury biogas flare makes a significant impact. It improves air quality, cuts down on greenhouse gas emissions and helps the local economy. While it's worth doing for the environment alone, the economic benefit of carbon credits also creates a commercially viable project for additional abatement under the ERF.

Hawkesbury Council's Director of Infrastructure Services, Will Barton, has noted the cumulative benefits. He says;

"The strategy would assist to deliver a climate-resilient community with economic benefits through decreased operational costs and environmental benefits."



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* Results Achieved to October 2024

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Hawkesbury City Council

A great result for the local council and economy can also be a positive for the environment!

- ✓ Improves air quality
- ✓ Reduces greenhouse gas emissions
- ✓ Contributes to the local economy
- ✓ Stimulates future development opportunities
- ✓ Contributes to best practice landfill management



LGI technician installing new infrastructure to increase biogas extraction

"The carbon abatement for the past 12 months was equivalent to removing 5,918 cars off the road for a year."

- Founder, Adam Bloomer

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