

Eastern Creek landfill gets a boost

THE Eastern Creek Landfill now boasts of a new flare, 17 gas wells and critical gas extraction infrastructure, to hold increased volumes of biogas.

This upgrade has been made possible through a \$18.5M deal between LGI Limited and BINGO industries, which ensures more biogas is extracted from the landfill site to be converted into renewable electricity via a four-megawatt renewable power station.

Plans to expand the project are already under consideration, including installing battery energy storage systems and further increase in generation capacity.

The generated electricity will supply power to BINGO Industries behind the meter at their Eastern Creek Recycling Ecology Park as well as via the grid to BINGO sites in New South Wales, with surplus green electricity fed into the National Electricity Market, powering the equivalent of at least 7,000 homes each year.

To date, 45,000 cubic metre of earth

has been moved on the site allowing for civil works for the power station to commence, maintaining the target commissioning by mid-2025.

Further, the recent upgrades to the site would allow LGI to capture more gas and increase the system's resilience. In addition to powering the renewable electricity facility, capturing and utilising the biogas also helps mitigate unfriendly odours.

LGI CEO, Jarryd Doran said the multi-million-dollar upgrades will benefit both the environment and local community around the Eastern Creek site and the broader Blacktown Local Government Area.

"As on date, 17 new gas wells have been drilled, with 60 to be completed by the end of January 2025," said Mr Doran.

Mr Doran said LGI has been working extensively with other responsible local governments and leading private waste operators in New South Wales for more than a decade to capture landfill biogas, decrease emissions and reduce the state's

carbon footprint.

"Our partnerships with multiple NSW councils have allowed us to reduce CO₂e emissions (CO₂e is a unit of measurement used to standardise the climate effects of greenhouse gases) by more than 1.13 million tonnes, which is the equivalent of planting 18.8 million seedlings for the next decade," said Mr Doran.

"Since 2013, more than 119.4 million m³ of biogas has been captured at our nine New South Wales sites, with 167,000 Australian Carbon Credit Units (ACCUs) created.

Nationally, eight of the company's landfill sites have produced more than 540,000MWh, which is more than enough electricity to power 93,000 homes for one year.

BINGO Industries CEO, Chris Jeffrey said the project enhances BINGO's earlier investment of around \$5M in landfill gas infrastructure and strengthens the company's position as a circular economy leader.

"The state-of-the-art, gas extraction



LGI CEO Jarryd Doran.

infrastructure installed on site is an important step towards further reducing emissions and continuing to improve environmental outcomes for the community. More importantly, it helps towards our goal of achieving 100% renewable electricity in our operations by 2025, while achieving circular economy outcomes," said Mr Jeffrey.