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Gas recovery has a bright future

We've been working to convert a negative landfill by-product into a positive resource with the installation of eight new landfill gas bores over the last 12 months.

This infrastructure has boosted our landfill gas capture more than two-fold to sit at a monthly capture-rate of around 130,000 cubic metres across a total network of 24 bores.

Removal of this methane from the atmosphere has a 23-times positive effect on greenhouse gas generation which in itself is a great result.

In time to come, there may be potential to install a generator to return electricity to the grid. That's the kind of bright future and problem solving that lights up our day.

Upwards and onwards for organics recycling upgrade

Our DWM Organics Recycling Facility has commenced a \$10M+ upgrade program which will have state-wide significance in reducing waste to landfill.

Conceptualised over two major stages out to 2022/23, the upgraded facility will ultimately replace our open windrow composting system and deliver best practice leachate and odour management.

The program was initiated in December 2019 with the arrival of a Kromptech X63 windrow turner, which will deliver immediate environmental outcomes for the local community.

This will be followed by a closed loop leachate management system with undercover compost windrows (construction target in 2020/21), and pending assessment, an in-vessel compost system with full odour-controlled environment and pasteurisation.

The upgrade creates potential for new industry and municipal input stock (including FOGO) and waste rerouting from TasWater, with a total projected processing capacity of up to 50,000 tonnes per year.

An Expression of Interest was issued in November to initiate detailed program planning and we look forward to keeping you informed of progress.



Windrow turners improve aeration to reduce odours and assist the composting process.



Our new Bomag compactor looks good while delivering fuel efficiencies, lower emissions and less noise.

Clever choice of smart engine technology

Christmas came early at the DWM landfill with the arrival in August of a new Bomag compactor with tier IV smart engine technology. Compliant with the highest exhaust standards, our new landfill compactor delivers a 25% improvement in fuel efficiency with lower emissions and less noise.

If you see our operators smiling more than usual, that could be because of the new Bomag's enhancements in cabin odour treatment and the knowledge of improved operational and environmental performance.

As with all DWM operational decisions, we think long term and in the context of the bigger picture. A lifecycle assessment of the smart engine Bomag versus alternatives sealed the deal when considering fuel consumption, servicing costs, operator health and safety, and its environmental footprint.

First waste load marks new landfill cell era

Last year we put the finishing touches on a new, precision-engineered landfill cell known as B1-North and this year we welcomed its first load of waste.

The cell was designed to exceed the Tasmanian and Victorian Environmental Protection Authority requirements and keep a step ahead of the containment and capacity requirements of our customers. Having reliable, high-performing landfill space to support our customers is a key priority of the DWM team.

The new cell's geo-synthetic clay liner was a first of its kind for the DWM landfill, but won't be the last with plans for a B1-South cell finalised and construction already underway. This next cell also features a manufactured hydraulic barrier of natural sodium bentonite and geotextiles and will come into use towards the end of 2020.

When big is no barrier

2019 has been a year of upgrades and continual improvement at DWM, with approval granted for B-double access to the landfill and composting facility.

A new 28 metre weighbridge with a vehicle-record camera has been installed to accommodate longer truck combinations and provide greater transport flexibility and efficiency for our customers. See you at the gate!



The high-tech landfill cell commenced use in 2019.



The B-double-friendly weighbridge has ample room for big vehicle loads.

Can't wait for the next newsletter?

Keep up to date with our projects and services at
www.dulverton.com.au