

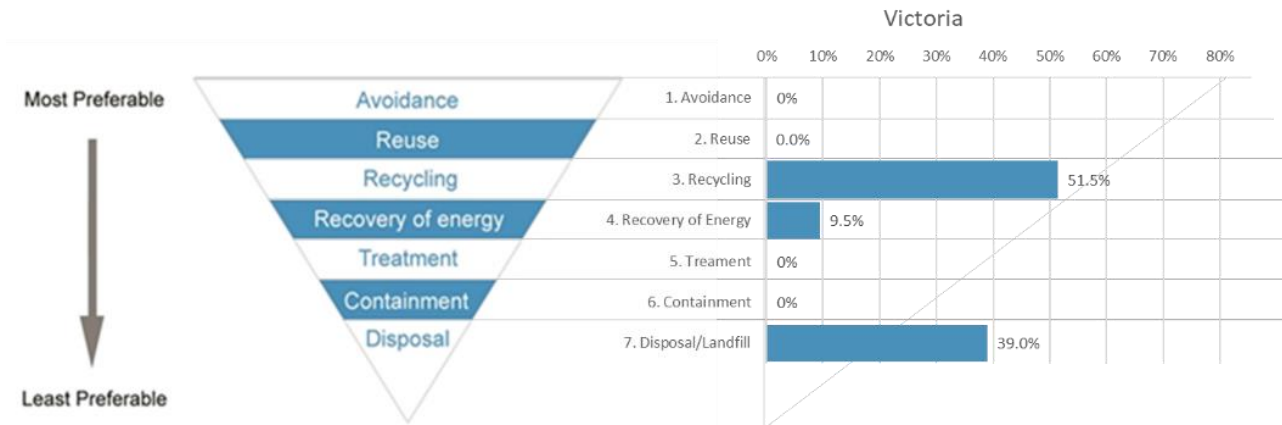
## Maryvale Energy from Waste Project

December 2023

### 5.7 million tonnes of waste going to landfill in Victoria

Victoria's latest performance data shows circa 5.7 million tonnes of waste still going to landfill. With an Australian and Victorian goal of achieving 80% diversion of waste from landfill by 2030, the recovery of energy from waste (EfW) is the missing opportunity in our waste sector. As shown below in the waste hierarchy and the matching performance table, recovery of energy is preferential to landfilling but there remains a significant gap between our goal and current performance.

Victorian Councils can play a vital role in supporting a new and crucial EfW industry as part of the solution to achieve 80% landfill diversion.



### Major milestone for \$600 million Maryvale Energy from Waste project

World-class technology and construction partners have been selected to deliver the detailed design and final construction costings for the Maryvale EfW project. Leading Spanish engineering, procurement and construction contractors, Cobra Instalaciones y Servicios SA (Cobra), are partnering with global clean energy technology powerhouse, Babcock & Wilcox, to bring the wealth of their experience and ingenuity to the Maryvale EfW project.

Since 1944, Grupo COBRA has evolved to become a world benchmark with the ability and determination to develop, create and operate industrial infrastructures that require a high level of service, based on excellence in integration, technological innovation and financial strength.

As a leading waste-to-energy company, Babcock & Wilcox (B&W) has more than 155 years' of experience in designing, supplying and servicing some of the world's cleanest, most efficient energy and environmental systems. B&W's capabilities include state-of-the-art boiler, combustion grate, fuel and ash handling systems, and emissions control technologies, developed and improved over the last 90 years.



CopenHill EfW facility in Copenhagen with technology installed by Babcock & Wilcox

B&W's history in Australia spans many years across various industries. From the installation of an electrostatic precipitator system in Port Kembla, the supply of recovery boilers to the Maryvale Paper Mill, to supplying an ash handling system in North Fremantle, to package boilers for a fertiliser plant on the Burrup Peninsula, to Vølund waste-to-energy BFB boilers in Gympie and Melbourne. B&W's largest project in Australia was the supply of two supercritical boilers, pulverisers, low NOx burners and Diamond Power® sootblowers for the Milmerran power station in Queensland. B&W has provided expert field service not only to Milmerran but numerous other facilities across Australia for many decades.

Together, Cobra and B&W are working on the detailed design and engineering for the project, allowing them to provide final pricing. This is a key step in determining the overall cost of the project, allowing the consortium partners to secure financing and commence construction in 2024. The consortium is in advanced discussions with Councils that have expressed interest in knowing more about the Maryvale EfW project and understanding the 'waste arising' contract model. The model provides flexibility for Councils to supply their non-recyclable residual waste, with the freedom to pursue alternative waste reduction initiatives.

The project will look to engage local service providers where possible, for the construction of the facility.

**If you are interested in learning more, please contact:**

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## EfW Stakeholder Engagement – recent activities

The EfW project team continues to engage with stakeholders and interested parties about the Maryvale project.

Opal's David Jettner presented at the WMRR EfW Conference held in Sydney 1-2 November 2023 discussing "Reaching 80% landfill diversion with recycling, EfW and ash residue processing." This was a wonderful chance to discuss the opportunities that EfW presents in Australia.

On a local level Megan Cartwright and John Lang have recently hosted community groups from Traralgon Rotary and Gippsland Ethnic Community Council at the Creating Energy from Waste Information Centre. There was a lot of interest and enthusiasm for the project and what it could mean for both the local community and Victoria more broadly.

The Information Centre remains open to welcome visitors every Tuesday 10am to 3pm (closed 22 December to 8 January 2024). Please contact us if you would like to arrange a tour via email: [creatingenergy@opalan.com](mailto:creatingenergy@opalan.com)



Traralgon Rotary presented Megan and John with a tree adoption in thanks, and hand drawn thank you from a Junior Rotary member.



Gippsland Ethnic Community Group

## Energy from Waste and Victoria's Circular Economy

Victoria's circular economy plan, *Recycling Victoria: A new economy*, outlines the changes that are needed to reduce waste and boost recycling.

Alongside a range of Victorian initiatives - four bin system, container deposit scheme (CDS), food organics and garden organics (FOGO) separation, and source separation of business waste - is the establishment of an EfW industry in Victoria as a preferential solution to residual waste.



### The Maryvale EfW project embodies best practice:

- Recovery of energy in the form of both steam and electricity to generate thermal efficiency of 58% compared to 27% for electrical energy only.
- The use of this energy to support a regional manufacturer producing recycled and recyclable fibre packaging.
- Recovery of bottom ash residues to extract metals and create a recycled aggregate.
- Processing of Flue Gas Treatment Residues (FGTR) to produce manufactured limestone aggregates.
- A target of more than 99% landfill diversion.
- Proven and reliable technology.

If you are interested in learning more, please contact us at:

The Creating Energy from Waste Information Centre, 1 Monash Way, Morwell, open every Tuesday 10am – 3pm

email: [creatingenergy@opalanz.com](mailto:creatingenergy@opalanz.com)

Visit: <https://opalanz.com/future/energy-from-waste/>