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## BUILDING ENERGY SECURITY - ALL WASTE INTERCHANGE

*An enabler for delivery of Ballarat's New Energy Futures Package: converting waste into affordable and secure energy for industry; improving environmental outcomes (reduced carbon emissions); dramatically cutting the amount of waste to landfill*

### The Ask

- \$15 million for Stage 1 of an All Waste Interchange Facility (AWIF)
- \$2.5 million in government support for commercialisation and site preparation works for a Waste to Energy Facility (W2E)
- State Government facilitation to access the Ballarat West Employment Zone site for AWIF and W2E

Note: A government commitment to a zero EPA Landfill Levy for Waste to Energy facilities is necessary to ensure a positive investment environment for the private sector.

### **All-Waste Interchange Facility (AWIF) - facilitating economic, environmental and social benefits**

- The AWIF is key to driving efficient resource recovery and providing a secure feedstock supply for the Waste to Energy Facility
- The AWIF will support the delivery of affordable and secure energy to industry, assist Ballarat to achieve a competitive advantage, and provide potential resources for the bME Innovation Centre
- The AWIF will deliver dramatic environmental and economic benefits around the region, facilitating greatly reduced waste management costs and carbon emissions
- Construction of an All Waste Interchange is essential enabling infrastructure for the delivery of a Waste to Energy Facility – a key element of Ballarat's *New Energy Futures Package*. It is a project with potential to create approximately 200 jobs and generate \$300 million investment

- Once the AWIF is operational the existing, ageing transfer station will be closed and the site included as part of the master planning process for the redevelopment of the former Ballarat Saleyards site. Rapid growth means both sites are now located in central areas that could be used to bring greater benefits to residents

### Economic Benefits

The AWIF will provide for 40 full time construction jobs over 18 months and a \$67 million economic benefit once it is fully established and acting as a Waste to Energy Facility feeder.

### Managing Waste

The facility will sort and process a wide range of solid waste streams from the Ballarat municipality, Grampians West Regional Waste Group partners and other local government and industry groups, creating an extremely positive commercial opportunity.

The AWIF will provide a regional hub for a wide range of waste collection, sorting, reuse and recycling activities and, in doing so, will help cater for the future waste management needs of Ballarat's rapid population growth.

## Energy for Industry

The AWIF Stage 1 will act as a catalyst project for adjacent industrial development and as a Waste to Energy Facility feeder that will provide affordable and reliable baseload energy to the Ballarat community.

The Waste to Energy project is located at a central point in a premium industrial offering, the Ballarat West Employment Zone, and is co-located near a Powercor substation and established industry.

It will provide a secure energy source for nearby industries and be a driving force in attracting both industries and employment to BWEZ by delivering a competitive advantage.

### All Waste stage 1 includes:

- Site establishment, access roads construction, site storm water drainage
- Sewer, electricity, gas and communication services connections
- Construction of fully enclosed All Waste building, moving floor and roll-on roll-off units
- Operations office, truck sheds and wash bay

## Funding

\$15.320 million total project cost

- City of Ballarat has committed \$5 million
- State Government investment sought - \$5 million
- A funding request for \$5 million has been lodged with the Federal Government through the Building Better Regions Fund (December 2017)
- Funding request for \$320,000 has been lodged with the State Government through the Resource Recovery Infrastructure Fund (January 2018)

## Project Status

- Feasibility and masterplan works completed
- Site secured
- Design and construction of site servicing and road works due to begin September 2018 (funding dependent)
- Design and construction of infrastructure works due to commence July 2019 (funding dependent)
- Completion due July 2020 (funding dependent)

## Strategic Alignment

### City of Ballarat

- Council Plan 2017–2021

### State

- Victoria's Renewable Energy Action Plan 2015
- New Energy Technologies Sector Strategy
- New Energy Jobs Fund

- Review of Electricity and Gas Retail Markets in Victoria
- Victoria's Climate Change Framework
- Victoria's Climate Change Adaption Plan 2017–2020
- DELWP Renewable Investment Plan

## Context

Ballarat and the Western Region is a leader in renewable energy production; it is rapidly advancing its position as a new energy innovation leader, and as a growth base for energy companies. Ballarat's New Energy Futures Package is designed to enhance this position.

### Associated Energy Projects in the BWEZ Precinct (funding dependent)

**Waste to Energy Facility - there is strong market interest in the facility.** *(The All Waste Interchange is essential enabling infrastructure for this project.)*

This energy plant will:

- divert 90% of the City of Ballarat's waste destined for landfill into a productive resource
- provide affordable and secure access to new energy for industry and community
- reduce carbon emissions
- avoid the environmental impacts of landfill
- deliver a waste management solution that includes the consideration of recyclable plastics in the Central Highlands Region
- potential to offer testbed opportunities for the bME Innovation Centre

Project partners include Mars Chocolate, private waste to energy operator, supporting municipalities.

## Market Interest

Private sector market sounding has occurred and a number of private providers have expressed strong interest in developing the facility.

Market sounding has shown the potential for a large facility which could process Ballarat's waste, regional waste (including from Geelong and Bendigo) and waste from metropolitan Melbourne of up to 400,000 tonnes a year.

## bME Innovation Centre

The bME Innovation Centre, with associated research, enterprise incubation, knowledge transfer and technology development processes, will focus on innovation in energy, materials and food production.

Project partners include VTT Finland, Mars Chocolate and Gekko Systems.

The bME Innovation Centre will deliver \$38 million in output during construction and 22 direct jobs; it will facilitate world class research and development; creating 900 jobs and delivering an estimated \$89 million in value add.