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Australian Stock Exchange  
Company Announcements Office  
Exchange Centre  
Level 1  
20 Bridge Street  
Sydney NSW 2000

AnaeCo Limited ABN 36 087 244 228  
3 Turner Avenue, Technology Park  
Bentley, Western Australia 6102  
PO Box 1287, Bentley DC WA 6983  
Ph: +61 8 9361 4777  
Fx: +61 8 9361 4888  
info@anaeco.com  
www.anaeco.com

## DiCOM System wins independent certification

AnaeCo is pleased to announce that Sinclair Knight Merz (SKM) the independent engineer appointed to the Western Metropolitan Regional Council (WMRC) Stage 1 project has issued the Final Certificate of Satisfaction. This certificate is independent verification that the DiCOM process has satisfactorily met the contractual performance trials enabling the WMRC project to proceed to Stage 2. Stage 2 will expand the existing facility's capacity threefold.

This independent certification validates key technical claims made by AnaeCo about the DiCOM process including its production of renewable energy in excess of the plant's internal requirements as well as the ability to produce high quality compost from organic material sourced from mixed household waste.

Tom Rudas, the Managing Director of AnaeCo said "The most satisfying aspect of the certification process has been the ability of the AnaeCo team to take a new technology, previously unproven at commercial scale, construct a facility and then demonstrate its successful performance in such a short time frame."

Prof. Michael Dureau, Chairman of AnaeCo said "AnaeCo is now well on its way to becoming a world recognized innovator in the conversion of municipal and industrial solid waste to high value resources."

The DiCOM System is proven at full scale to deliver significant commercial advantages to the Alternative Waste Technology sector.

The key technology based competitive advantages proven in the WMRC performance trials are;

- Small plant footprint
  - The DiCOM System installation at the WMRC waste transfer station occupies less than 2,000m<sup>3</sup>

- Plant processing capacity confirmed
  - The DiCOM System installation at the WMRC waste transfer station is designed to receive 55,000 tpa of municipal solid waste (MSW). The trials have confirmed this operating capability and indicated potential to operate at up to a 20% higher rating.
- Effectiveness of 21 day batch processing cycle
  - The hybrid aerobic/anaerobic/aerobic bioconversion process efficiently processed the organic fraction of MSW producing biogas and stabilised compost in a 21 day cycle.
  - The process control system efficiently controlled all aspects of the automated processes, including the unique transition phases in the sealed bioconversion vessel from aerobic to anaerobic and back to aerobic. The bioconversion transition phases are a core element of DiCOM IP and this was proven in all 6 trials without any issue.
  - The consistent high temperature during the anaerobic phase was effective in destruction of pathogens.
  - Compost end product is high in nutrients and likely to find use as feedstock for organic fertiliser.
  - Low operator manning levels confirmed.
- Quality production of biogas
  - Biogas production during anaerobic digestion was of sufficient volumes and consistency to confirm it is a reliable source of renewable energy.
- Low water use
  - Low water use in material recovery facility.
  - Water recirculated during the bioconversion phase.
- Odour free
  - The operating process did not cause any odour issues at the WMRC transfer station. This was confirmed by independent odour monitoring throughout the performance trials.
  - Bioconversion inside the sealed vessel is the major reason for such effective odour control.
- Greenhouse gas abatement
  - Combustion of methane in biogas (renewable energy).
  - Reduction in transport going to landfill (waste diversion % translates directly to transport reduction).



- Installation close to source of waste
  - Attributes such as small plant footprint, absence of odour and the efficient industrialised process means a DiCOM installation may be located closer to the source of waste in light industrial areas rather than on the extremities of metropolitan sprawl.

### **Focus on commercialisation**

Following the completion of technology demonstration at the WMRC project, AnaeCo is now focusing on successful commercialisation of the technology within the dynamic, global AWT market. Product development and market positioning are now the company's key focus.

On product development the Company is applying resources to refining product specifications, product pricing, a construction and delivery model, and development of off-taker relationships. An underlying objective is to create a platform for delivery of reliable, replicable products.

The objectives in market positioning are to place the Company at the forefront of the waste management services industry through the application of DiCOM technology, focusing on delivering strong shareholder value while meeting high sustainability standards.

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For further information, please contact:

Tom Rudas, Managing Director	(08) 9361 4777
David Michie, Mosaic Reputation Management (Media)	0411 453 404
David Waterhouse, Waterhouse Investor Relations (Investors)	0407 880 937

### **About AnaeCo**

AnaeCo delivers Alternative Waste Technology (AWT) facilities based on the patented DiCOM® bioconversion process. The system incorporates advanced sorting, recycling, anaerobic digestion and aerobic composting to recycle municipal solid waste (MSW) into renewable energy from biogas, agricultural grade compost and recyclables such as steel, aluminium, glass and plastics, thus ensuring maximum diversion from landfill and ensuring social, economic and environmentally sustainable management of MSW.

The DiCOM® process enables resource recovery intervention closer to source, with enhancement of existing waste transfer stations now a viable waste management



option. AnaeCo's experienced team provides design, construction, commissioning, operation and maintenance services for DiCOM® AWT facilities, as well as management of all outputs including renewable energy, compost, recyclable materials and non-recyclable residuals.

For further information go to [www.anaeco.com](http://www.anaeco.com)