



## Project Profile

<b>Client</b>	Geocycle
<b>Job Name</b>	Plant Upgrade
<b>Site Location</b>	Dandenong, Vic
<b>Scope of Work</b>	Full Design and Construct
<b>Job Completed</b>	2011
<b>Project Description</b>	<p>Geocycle as a subsidiary of Cement Australia in collaboration with Gordyn &amp; Palmer designed, installed and commissioned a solid waste shredding and blending process. This mix of technology had not been utilised for this process anywhere in the world so the design and development stage was significant.</p> <p>The plant was designed to handle a pallet of four drums of waste material or a mini skip of solid wastes. These wastes are lifted up 12 metres in the air and tipped into a nitrogen inerted airlock prior to being dropped into an auger shredder. This shredder reduces the waste into pieces of less than 150mm that are then added into a liquid mixing tank. This mixing tank has a magnetic extraction conveyor to remove and recycle the metal drum pieces. The remaining waste is further reduced in size to less than 8mm through two further size reduction steps while being homogenised into a highly controlled fuel. This fuel is then co-processed in Cement Australia's kiln to recover the energy value from the wastes and to reduce the amount of coal burnt.</p> <p>In fact, the fuel developed by the plant has the potential to lower CO2 emissions by 18% compared with the use of coal. The system is not only providing industry with a solution to the disposal of hazardous waste, but also providing a world-leading example of how industry can reduce CO2 emissions and conserve energy.</p>
<b>Personnel</b>	Project Manager: Ian Denny
<b>Logo</b>	
<b>Video Link</b>	<a href="http://www.youtube.com/watch?v=ZK19JL91T7M&amp;feature=colike">http://www.youtube.com/watch?v=ZK19JL91T7M&amp;feature=colike</a>



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