

Vegetation Processing at Kimbriki

A New System for Vegetation Processing

Kimbriki receives and processes vegetation from household kerbside “green” bins as well as from commercial operators and directly from the general public. This operation is managed for Kimbriki by Australian Native Landscapes who have an extensive network of processing facilities, bulk and retail outlets as well as logistics capabilities to enable the production and reuse of composted products.

A total of around 80,000 tonnes per annum are processed using a state-of-the-art windrow processing system on site to manage about 40% of the incoming materials with the remainder shredded and transferred in bulk to ANL’s licenced facility at Badgerys Creek for further processing.

This hybrid system ensures the windrows of composting vegetation on site are well turned and kept aerobic to maximise the efficiency of the composting process as well as minimising the potential for odour generation.

Methodology

Reception and Shredding - A slow-speed shredder is used which enables more reliable operations ensuring un-shredded vegetation is not allowed to accumulate. Also the slower action dramatically reduces the potential for projecting odour into the air compared to the current high-speed units being deployed as well as creating a coarser material enabling better aeration of the active material being windrowed.

Loading and Transport – About 60% of the shredded material is loaded directly into trucks and taken to another ANL licenced composting facility for further processing and refinement immediately after shredding. The majority of this material will then be transported out west to support regional agriculture under ANL’s “City to Farm” soil application program, feeding the crops we eat every day.

Windrowing and Refinement - Following shredding, the proportion of shredded vegetation not immediately taken off-site are put into specially shaped piles known as windrows and turned weekly by a purpose-built windrow turner to ensure the compost is fully aerated and to prevent anaerobic conditions developing.

Stock in windrows is limited to around 10,000 tonnes of active material with a maximum height of 3.2 metres.

Community Support

Kimbriki and ANL also support not for profit local initiatives in Terrey Hills and the surrounds through the donation of products and expertise. These donations are intended to provide additional resources to local sustainability projects to help foster community projects that have direct and immediate benefits for the environment and community.



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ANL Concept Plan

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