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The initiative has reduced electricity, water and raw materials, reduced landfill waste by 85% and reduced fuel consumption on company vehicles.

Intec

Project: Electroplating Industry Waste Recycling

Throughout 2009, Intec used its Tasmania technical facility to recycle heavy metals contained in previously intractable industrial waste sludge and residue.

The company's recycling operation extracts and recovers heavy metals into useful mineral products, turning them in to the equivalent of freshly-mined metals concentrate. The process has been developed over 20 years and is able to extract and recover metals from a wide range of industrial wastes.

Jayco

Project: Compressed Air Audit and Upgrade

Jayco utilises compressed air extensively in its manufacturing processes.

When the company consolidated its operations to a single purpose-built facility, one of the goals was to improve manufacturing efficiencies, including the use of compressed air.

After an air audit by Champion Compressors, a custom designed compressed air system was installed. The system accommodates the company's varying air demands. The compressors can run in isolation or parallel, ensuring all factory air demands can be met while the compressors continue to run within their optimum efficient operating range.

Lafarge Plasterboard

Project: Stormwater Harvesting at Matraville Plant

Lafarge Plasterboard sees water conservation as a priority. Its plasterboard manufacturing requires water as a key additive in the formation of the product.

Water was typically sourced solely from town supply however harvesting stormwater has proved a more efficient method.

Rainfall from 30% of the plant roof area is now diverted and retained in addition to an existing designated catchment area. The harvested stormwater is now added to the process water

feed, making annual water savings of approximately 9.2million litres.

Papyrus Australia

Project: Papyrus Australia

South-Australian based Papyrus Australia is the developer of a world-first technology that utilises fibre from the waste trunk of a banana palm to produce paper and timber products under the brand Beleaf.

The technology takes an otherwise unused waste material to produce high-value paper, cardboard, veneer and fibreboard products.

After an intensive research and development process, the trunk of the banana palm was identified as an ideal source of fibre because it is a renewable and abundant source and has no other viable use.

The manufacturing process does not consume any water or chemicals, requires less energy and produces no chemical effluent. In addition, it does not contribute to the destruction of natural or purpose-planted forests and could potentially save about 12 million hectares every year from destruction.

SITA Environmental Solutions

Project: SAWT – SITA Advanced MBT Composting Facility

SITA's services include domestic, commercial and industrial waste collection, waste assessments, resource recovery and recycling processing facilities.

The company's SAWT Advanced Resource Recovery Facility offers local councils technology that processes organic streams from residential and commercial customers into compost and recovers reusable resources such as aluminium and steel.

One of the dramatic effects of the new plant is that recycling rates for example, for Liverpool City Council will increase from 16% to more than 80%.