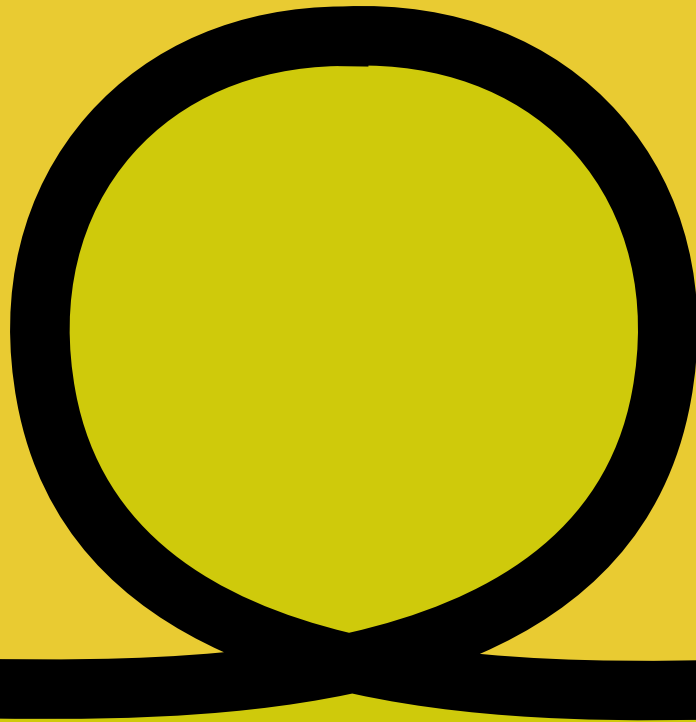


TECHNOLOGY SOLUTIONS

TUNNEL COMPOSTING FOR ORGANICS



ECOLIBRIUM™
A WIND SOLUTION

How **tunnel composting** fast-tracks organic materials into useable compost products

With tunnel composting technology, we can process 100% of received organic materials, including mixed food and garden waste, and convert it into nutrient-rich compost that is returned to the community.



FASTER MORE EFFICIENT COMPOSTING

Compared with traditional open air composting methods, fully enclosed tunnel technology creates a controlled environment with optimum temperature, oxygen and moisture levels maintained to ensure rapid and effective decomposition of the organic materials.

DESIGNED FOR FLEXIBILITY

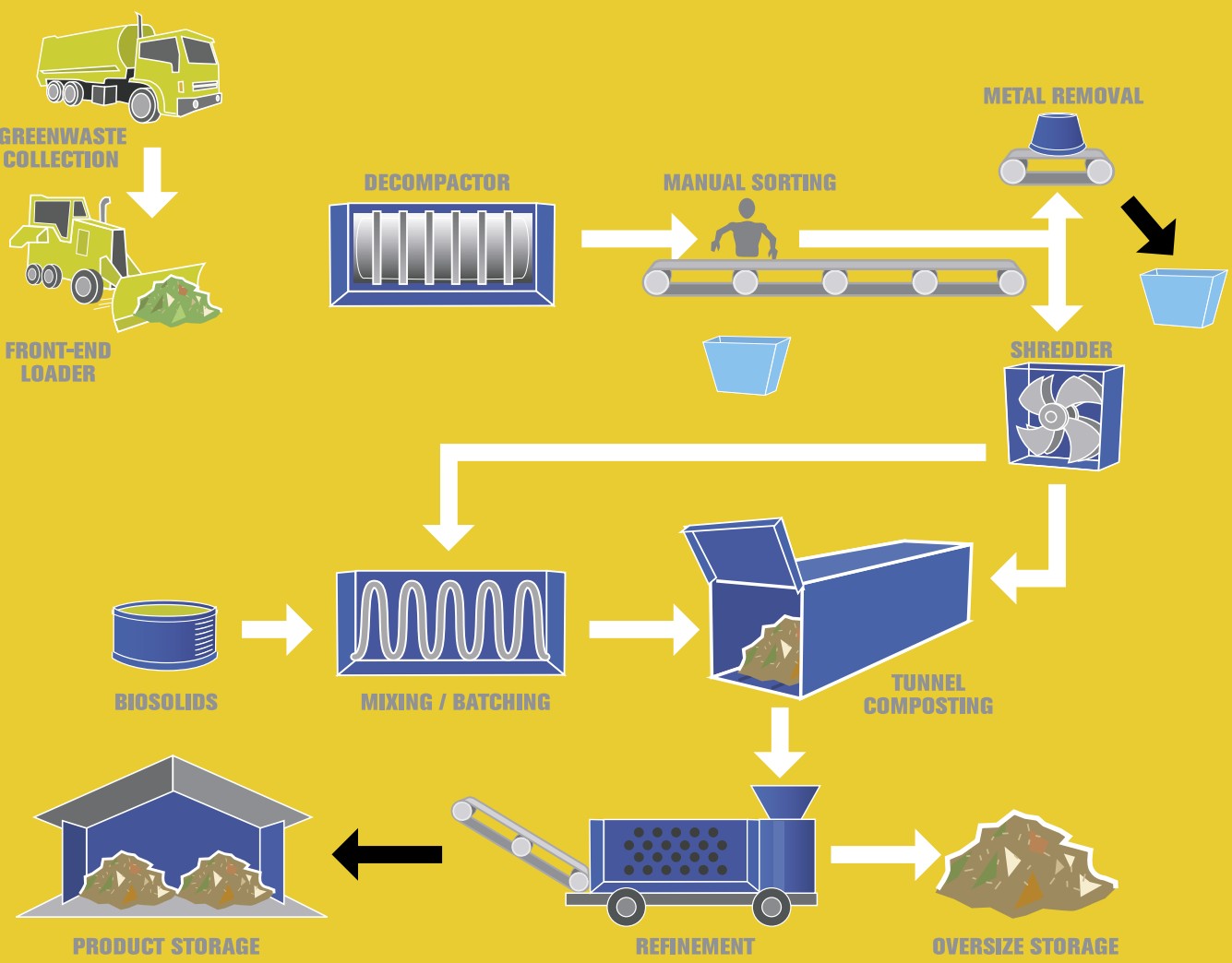
Our Ecolibrium™ organics solution has the flexibility to handle a greater variety of inputs, and is designed to produce a range of nutrient-rich, organic composted products.

We can either tailor the process to meet your existing bin and collection systems, or work with you to develop a new regime.

It can process clean garden organics, combined food and garden organics from council collection systems, as well as industrial food wastes.

What's more, it can handle municipal biosolids, and other organic waste products in combination with the garden organics. Because these other organic inputs are high in nutrients, we can produce rich compost products that are great for plant growth and soil health, and suitable as a natural replacement for artificial fertilisers. The modular design also allows for future expansion to meet council and community needs.

Processing mixed food and garden waste, providing a sustainable solution for recovering organics.



WE PROCESS A VARIETY OF PRODUCTS IN A FAST EFFICIENT PROCESS FOR A RANGE OF END MARKETS

Odour Minimisation...

Because the tunnel environment is airtight, there's very little odour. As fresh air is introduced to maintain the biological activity, stale air is discharged through a state of the art biofiltration process designed to remove odourous compounds.

WHAT IT DOES AND HOW IT WORKS

Our Ecolibrium™ organics solution uses a simple process with three main stages.

STAGE 1

Pre-treatment

In a two-part decontamination process, bulky and undesired items are removed from the organic material. The organics are then shredded to reduce particle size and may be blended with other organic materials. The exact recipe depends on the end product that will be produced.

STAGE 2

Tunnel composting

The shredded and blended organic material is loaded into airtight concrete tunnels, which are fully monitored and computer-controlled to maintain specific temperature, moisture and oxygen levels. The organic material decomposes due to naturally occurring biological activity. Water can be added to assist the process.

STAGE 3

Refinement

The compost is refined by screening the material to produce different grades of compost for community or commercial use.

A variety of products, a range of end-markets

Tunnel composting technology can produce a range of compost products, each with different benefits, and all of very high quality. Because they are specially formulated, rather than treated simply as a by-product, our products will satisfy strong end markets in both residential and agricultural sectors. And of course they will meet the stringent requirements of Australian Standards.

Compost Fines

By returning nutrients and valuable organic matter to soil, compost fines (finely screened composts) help stimulate plant growth, improve the soil's water-holding capacity and improve soil structure and drainage.

The nutrient value of high quality fines make it ideal for applications such as lawn topdressings, and as a base ingredient to produce specific garden blends for garden centres and nurseries.

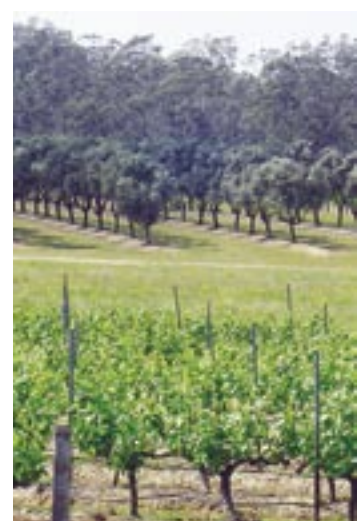
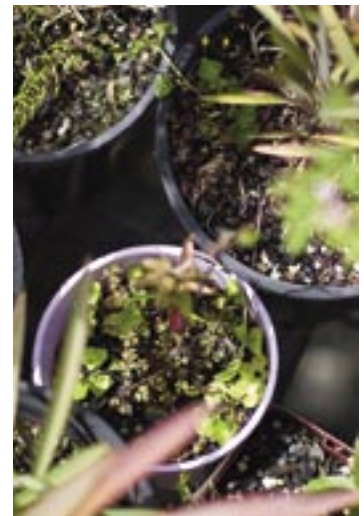
Composted Coarse Mulch

Composted coarse mulch suppresses weeds, and also helps soil retain more moisture, so it's suitable for both landscaping and rehabilitation. Insulation and regulation of soil temperature is improved, and as it breaks down over time, it provides organic content to the soil.

Soil Conditioner (Compost)

A combination of compost fines and coarse mulch, soil conditioner increases water retention, while reducing evaporation and helping to prevent erosion.

It's ideally suited to the agricultural market because of the way it can restore depleted soils and enhance the quality of poorer soils. It improves the structure and health of soil, increases water holding capacity, helps make plants more resistant to disease, and lessens the need for artificial fertilisers.



COMPOST IMPROVES THE STRUCTURE AND HEALTH OF SOIL, MAKING PLANTS MORE RESISTANT TO DISEASE, AND LESSENS THE NEED FOR ARTIFICIAL FERTILISERS

TAILORING OUR SYSTEMS TO YOUR SYSTEMS

Because our Ecolibrium™ organics process is flexible, we can tailor the composting process to suit your requirements.

So whether a council's collection system is for garden organics only, or it incorporates food or other organic waste into green materials, we can still produce a consistently high-nutrient value end product.

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