



Rural City of
Wangaratta

Client: City of Wangaratta

Location: Victoria



CASE STUDY

CHALLENGE

City of Wangaratta, a regional Council in Victoria, faced the pressing challenge of handling a growing volume of Food Organics and Garden Organics (FOGO) waste. The existing waste processing system had become outdated and inefficient, failing to keep pace with the increasing demand for organic waste recycling.

They needed a solution to process 15,000 tonnes of contaminated organic waste annually, an amount that exceeded existing infrastructure capacity. To ensure future adaptability, the design needed to incorporate variable speed drives for cost-effective operation during peak and off-peak times. Maintaining material distribution and automating the opening of bagged materials were crucial for meeting stringent market and EPA regulations on organic recycling purity. The project also prioritised operator safety and efficiency, providing weather protection, climate control, and necessary access, guarding, and safety controls for council operators.

SOLUTION

Waste Initiatives has proposed a comprehensive solution to address the design objectives, emphasising **durability**. This solution involves designing, manufacturing (by CRS), installing, and commissioning a robust Organics Decontamination Plant with a 2-bay picking station. Key components include a reinforced feed hopper for material distribution and wear protection, a material regulating device for flow control, an incline conveyor for efficient material transport, and a sorting conveyor for contaminant separation to achieve high-quality organic recycling. The excess product drops off the end and goes through a shredder.

Operator comfort and safety are paramount, with an air-conditioned cabin enclosure, while access facilities simplify maintenance and operation. Electrical integration encompasses a Master Control Centre (MCC) and wiring for seamless system coordination and control.

