



# Capability Statement

Smart Food Waste Management — Powered by Real Data

## About Us

Biofeed, a division of Apollo Engineering, is a data-driven food waste solution designed and manufactured in Australia. By turning food waste into a semisolid, pumpable pulp and tracking every kilogram processed, Biofeed empowers businesses to optimise collections, reduce waste costs, and meet sustainability goals — with total transparency.

Trusted across schools, hospitals, food courts, and supermarkets, Biofeed delivers smarter waste decisions through real-time usage data and operational control.



## The Biofeed System

### How It Works

Food waste is deposited into the Biofeed unit, where it is macerated at high throughput and pumped to a holding tank for clean and easy collection. From there, the pulp can be collected on demand or directed into a compliant treatment pathway depending on site needs.

- Input:** Source-separated food waste only. The waste stream must be free from all inorganics (e.g. plastic, packaging), fibrous organics (e.g. corn husks, cobs, tough skins), and hard organics (e.g. shells, large raw bones).
- Output:** Semisolid pumpable liquid waste pulp for collection
- Throughput:** Up to 1,100L in 20 minutes (waste-type dependent)
- Footprint:** Biofeed is a compact unit at the point of disposal and the liquid holding tank be plumbed to convenient location for collection.



## System Configurations

Biofeed is available in a range of machine configurations to suit operations from **smaller hospitality venues** to **large-scale food waste producers**.

Customisation options include:

- Manual or electric **bin lifters**
- **Multiple holding tank configurations** available, standard tanks range from 1,000L to 5,000L holding tanks with larger tanks available including liquid separator tanks
- **Upstream auger processors** for continuous-feed, high-volume sites with longer cycle times

We tailor each system to match waste volume, handling preferences, and site layout.

## Industries Served

- Shopping Centres & Food Courts
- Supermarkets & Green Grocers
- Hotels, Cafés & Large Kitchens
- Aged Care & Hospitals
- Schools & Boarding Facilities
- Food Manufacturers & Processors

## Data & Telemetry

- ✓ Load cells measure the volume processed
- ✓ Integrated telemetry enables tenant-level usage reporting (upon request)
- ✓ Alerts for tank full status or service intervals

## The Process



### 1. Sort

Food waste is collected on-site and separated



### 2. Load

Food waste is loaded into the Biofeed



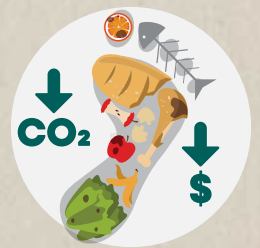
### 3. Processing

Food waste is processed into a semi-solid liquid



### 4. Storage

The waste is pumped into the Biofeed tank



### 5. Reduce

The waste has been diverted from landfill

## Data-Driven Collection

Biofeed's weighing and telemetry systems enable true on-demand waste tracking:

- Waste collection contractors are notified only when the tank is approaching capacity
- Supports tenant usage tracking in multi-site or shared environments (upon request)
- Eliminates manual checks and reduces collection frequency
- Helps sites meet sustainability and cost-efficiency targets

## Why It Matters

- ✓ Smarter collections – only when the tank is full
- ✓ Lower waste costs – no more paying for empty pickups
- ✓ Improved hygiene – sealed system, odour and vermin control
- ✓ Real-time visibility – report on kilograms of waste processed as it happens
- ✓ Operator-friendly – easy to use and clean
- ✓ Australian-made – built and supported locally

## Case Study: Reducing Cost and Carbon in a High-Volume Site

- A busy Sydney food court was producing **4 tonnes of food waste per week**, previously stored in open bins and collected 6 times weekly at high cost.
- After installing Biofeed:
- Collection frequency dropped from 6 to **1–2 pickups per week**
- Waste disposal cost reduced from **\$0.40/kg to \$0.13/kg**
- **Odour and vermin issues eliminated**
- **Bin footprint halved**, improving back-of-house space
- All organic waste now **diverted from landfill**

Estimated Monthly Saving on Collection Costs:

4,000 kg/week × \$0.27/kg saving × 4 weeks =  
\$4,320/month



## Environmental Outcome

**208 tonnes** of food waste diverted from landfill annually

**Up to 145.6 tonnes of CO<sub>2</sub>e** avoided per year

→ Based on 700 kg CO<sub>2</sub>e per tonne of food waste landfilled

Source: Australian Government – Clean Energy Regulator, National Greenhouse Accounts Factors (2024)

### Additional Environmental Benefits:

- **432 m<sup>3</sup>** of landfill space saved annually  
→ Assumes average food waste bulk density of 0.48 t/m<sup>3</sup> (Source: EPA Victoria & CSIRO, 2023)
- Equivalent to taking 55 **passenger cars** off the road each year  
→ Based on ~2.65 tonnes CO<sub>2</sub>e/year per vehicle (Source: Australian Department of Climate Change, Energy, the Environment and Water, 2024)
- **Zero plastic bag usage** for waste containment, unlike conventional bin storage systems

### Regulatory Compliance:

Biofeed helps businesses **future-proof operations** ahead of regulatory change.

From **1 July 2026**, under NSW's Waste and Sustainable Materials Strategy 2041, many large food waste-generating businesses — including food courts, shopping centres, hospitals, and supermarkets — will be **legally required to separate and divert food organics from landfill**.

**Source:** NSW EPA – Waste and Sustainable Materials Strategy 2041: Action Plan 2021–2027

- ✓ Biofeed offers full traceability and cost savings while ensuring sites are ready for compliance.





## Ready to take control of your food waste?

Book a site survey or request more information by reaching out to us today.

### Service & Support

- ✓ Manufactured in Tamworth, NSW by Apollo Engineering

Biofeed systems are backed by:

- Local installation & commissioning
- Operator training and induction
- Preventative maintenance plans
- Spare parts and upgrade options

**Biofeed — Smarter Waste, Cleaner Sites, Lower Costs**

Proudly supported by Apollo Engineering – Excellence in Every Action



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**Manufactured by Apollo Engineering**

47 - 53 Barnes Street, Tamworth NSW 2340

Ph 02 6765 7353



[apolloengineering.com.au](http://apolloengineering.com.au)

[bio-feed.com.au](http://bio-feed.com.au)