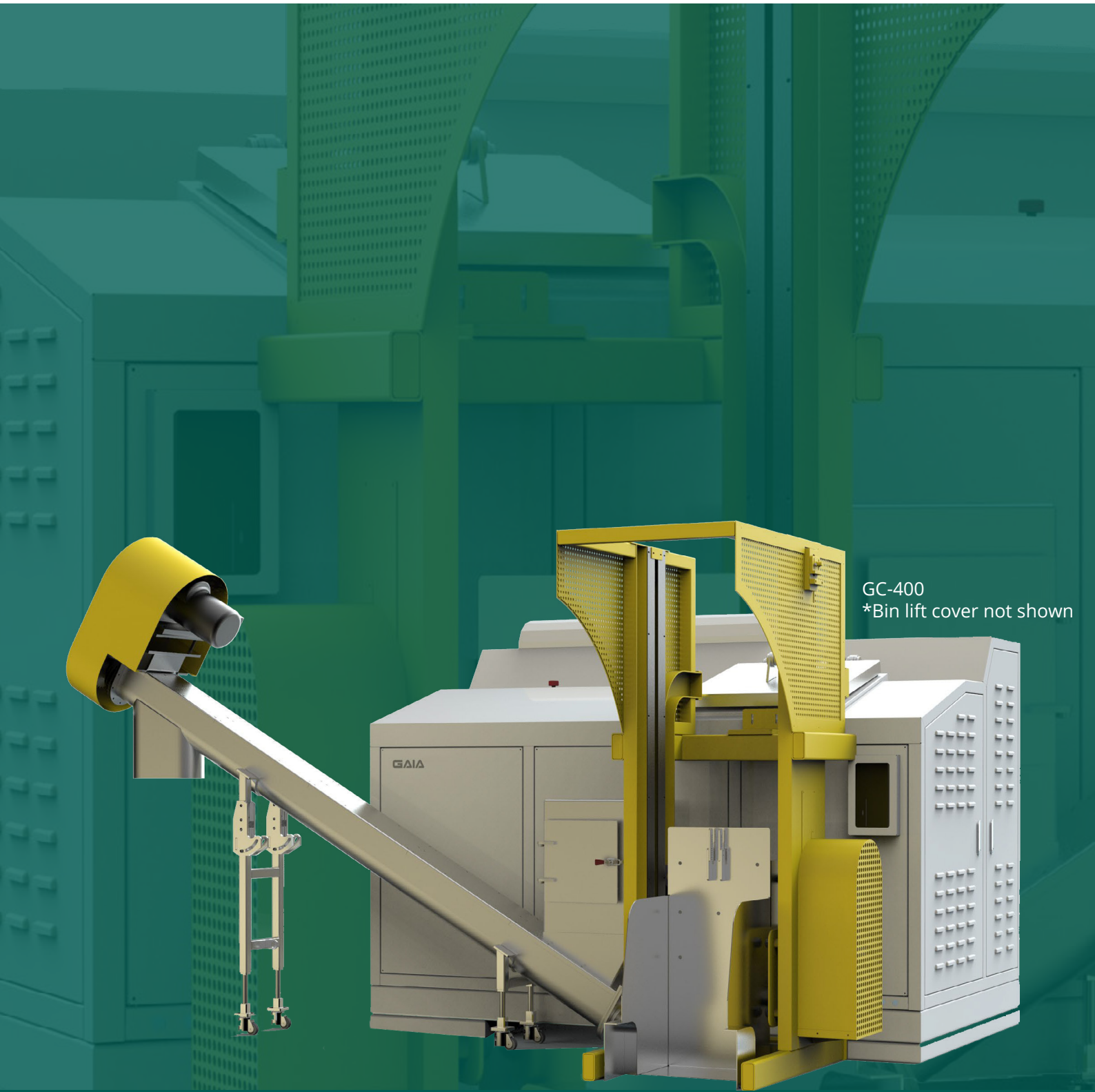
soilfood

SoilFood System by EcoGuardians

ecoguardians



GC-400
*Bin lift cover not shown

SoilFood™ System | ecoguardians

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The SoilFood™ System

How it works?

Wastes from Precincts/ Businesses

Segregation/ Education

Collection of Food Wastes

Dehydration

Creation of SoilFood™

Sustainable deployment

What is SoilFood™?

SoilFood™ is approved by the EPA NSW for land application.

> 40% — Organic carbon content
Restores the levels of soil organic carbon that mankind has depleted for centuries.

2.5% - 6.5% — Nitrogen content
The benchmark element for fertilisers. Right up there with Blood & Bone.

0.93% — Potassium content
Essential for vigorous growth and disease resistance.

0.35% — Phosphorus content
Promotes seed formation, root health and flower growth.

Extensive lab testing and pot trials carried out by Sydney Environment Science Laboratory (SESL) showed conclusively that the deployment of SoilFood™ **improves soil health and promotes vigorous plant growth** by varying application rates. The tests also demonstrated the **pathogen-free status** of SoilFood™ underlining its stability and safety for handling and security for soil application.

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SoilFood™ Clients

Who are our customers?

Woolworths – The fresh food people
bhpbilliton
Chevron
Melbourne Cricket Club
Victoria Police
City of Melbourne
Brisbane City
Uniting AgeWell
Prahran Market – the food lovers' market
South Melbourne Market – Since 1867
NSW Government HealthShare
QGC – A BG Group business
Baxter
Jemena – bringing energy to life
Yagan Square
The Royal Children's Hospital Melbourne
Royal Prince Alfred Hospital
Peninsula Health
Bendigo Health
Cabrini

Awards for SoilFood™

Recognition and acknowledgement of our system

Brisbane Conference & Exhibition Centre

- ✓ **2016** *Lord Mayor's Sustainability Award*
- ✓ **2016** *Energex Award for Sustainability in Business*
- ✓ **2015** *Lord Mayor's Sustainability Award*

South Melbourne Market

- ✓ **2018** *Sustainability Vic Institute of Public Accountability Award*
- ✓ **2018** *Local Government Professionals Award*
- ✓ **2017** *AORA Award for Sustainability in Business*

Melbourne Cricket Ground (MCG)

- ✓ **2018** *AORA Award for Sustainability in Business*
- ✓ **2018** *UK Award: Stadium Design & Development Innovation*
- ✓ **2018** *City of Melbourne Award: Contribution to Sustainability by a Business*
- ✓ **2018** *Green Sports Alliance award*
- ✓ **2016** *Sports Environment Alliance Change Solutions Award*

McConnell Dowell

- ✓ **2018** *APGA Environment award*

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Current environmental concerns

Details of food waste - Australia

VOLUMES OF FOOD WASTE

The federal government estimates food waste costs the Australian economy $20 billion each year. Over 5 million tonnes of food ends up in landfill, enough to fill 9,000 olympic swimming pools.

WATER

The total volume of water used each year to produce food that is rejected or wasted (250km^3) is equivalent to 10 times the volume of Port Phillip Bay.

GREENHOUSE GASES

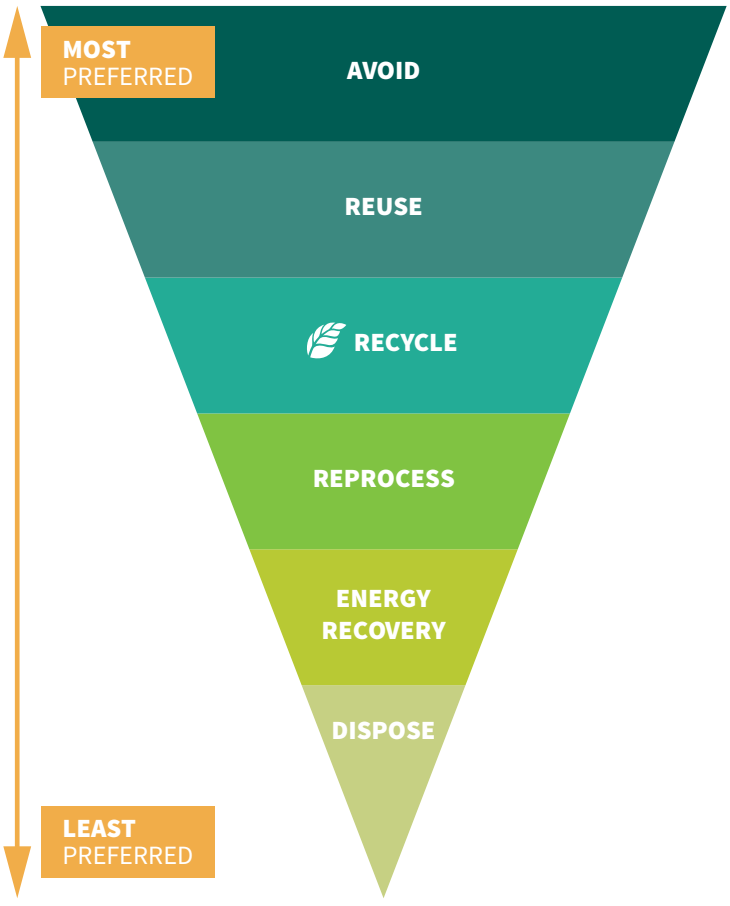
8+% of greenhouse gases heating the planet are caused by food waste. In Australia, eliminating food waste from landfill would save 9.5 million tonnes of Co2 a year, the equivalent of taking one in three cars off the road.

SOIL DEGRADATION

Australian soils are highly dependent upon on vegetation cover to generate nutrients and for stability. Land clearing, water extraction and poor soil management are causes of decline in the quality of Australia's soils.

- Food waste comes in a wide variety of types and amounts depending on your business so we provide a wide range of sizes from as little as 20kg per day to many tonnes. Systems which rely on enzymes and other additives or black box technology simply cannot scale up.
- Another downside of those systems is that they require a much greater footprint to process the same amount of waste. In today's space constrained environment businesses cannot afford to give up that extra space.
- A benefit of our solution is that we can utilise multiple energy sources to provide the heat needed for safe and effective treatment of the waste. This can be gas, electricity or even steam with our larger systems.
- On-going testing in real world usage has demonstrated real power consumption to be very efficient. Unlike other systems which claim lower power consumption but need to operate continuously, thus negating any potential benefit, our simple batch process uses less energy over time once processing temperature is achieved.

WASTE HEIRARCHY



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