



# Let's go FOGO

## EMRC FOGO Resource Recovery Strategy Update

17 March 2022

Marcus Geisler, CEO



# A New World for the EMRC



## Current EMRC activities



Recovery



Education



Data - Best  
Practice -  
Advocacy

Strategic Review  
2021 outcome



# EMRC Emissions 2020/2021



770

Scope 2 (t CO<sub>2</sub>-e)  
All EMRC's sites



2,100

Scope 1 (t CO<sub>2</sub>-e)  
Fleet and Stationary Equipment



130,000

Scope 1 (t CO<sub>2</sub>-e)  
Landfill



01

Scope 1 - Direct Emissions  
combustion of diesel, petrol and oils for vehicles, plant and other stationary equipment, and emissions from waste disposal.

02

Scope 2 - Indirect Emissions  
is the consumption of electricity purchased from the grid (SWIS).

# Waste Education Collateral



## Be a great sort!

### Recyclables

- ✓ Glass bottles & jars
- ✓ Plastic bottles & containers
- ✓ Aluminium & steel cans
- ✓ Paper (not shredded)
- ✓ Cardboard (flattened)

### FOGO

- ✓ Food organics
- ✓ Garden organics
- ✓ Compostable liners
- ✓ Soiled paper products
- ✓ Pet poo & kitty litter

### General waste

- ✓ Soft plastics
- ✓ Polystyrene
- ✓ Nappies & hygiene products
- ✓ Damaged textiles
- ✓ Meat Trays

Need more information?  
Get your answers here!

WasteSorted  
A State A-Ready Program

EMRC

# Bin Tagging



Dear Resident,

Thank you for your participation in the recent bin tagging program. You are contributing to the success of the FOGO rollout and implementation in your community.

The results showed an improvement in how you sorted your waste and used your bins. This means that we can turn your food and garden waste into compost, increase recycling and send less waste to landfill.

The most problematic contaminants in the FOGO bin are: glass, plastic (bags, bottles, wrappers) and nappies.

Please remember to put **FOOD AND GARDEN ORGANICS ONLY** in the FOGO bin, loose or in a compostable liner (with the seedling logo—see over).

For more information, on what goes in which bin, visit [www.recycleright.wa.gov.au](http://www.recycleright.wa.gov.au)

Your hard work is helping the community to reduce its environmental impact and make landfill the last resort.

**FOGO**  
FOOD ORGANICS  
GARDEN ORGANICS

The items in this bin are composted.  
Only put the following items in this bin.

Food scraps  
(including meat and bones)

Fruit and veggie scraps

Lawn clippings and garden vegetation

Compostable bin liners only  
(marked with this logo)

Contaminated paper  
(dirty)

**RECYCLABLES**

Paper and cardboard  
(newsprint and magazines)

Aluminum and steel  
(cans)

Glass bottles and jars  
(all colors)

Plastic bottles and containers  
(all colors)

JUICE

Items must be rinsed, empty and loose in the bin.

No nappies, plastics or glass

No glass, plastic (including bags, wrappers, bottles), nappies or bagged waste.

### Confused about which bin to use?

Download the 'Recycle Right' App from: [recycleright.wa.gov.au](http://recycleright.wa.gov.au) or Scan the QR Code with your smartphone camera and follow the prompts.



47A  
BASSENDEAN  
020006803

**THANK YOU**  
Your efforts help recycle valuable resources.

Glass bottles and jars

Plastic bottles and containers

Aluminum and steel cans

Paper and cardboard products

**RECYCLING RIGHT:**

- Saves water, energy and resources
- Reduces waste to landfill
- Reduces harmful greenhouse gases
- Is more cost effective

[recycleright.wa.gov.au](http://recycleright.wa.gov.au)[bassendean.wa.gov.au](http://bassendean.wa.gov.au)

**WE ASK ONE SMALL FAVOUR**  
Please **DO NOT** place these contaminants in your Recycling bin.

DO NOT place recyclables in bags. Loose or recyclables loose in the bin.

NO nappies or hygiene products

NO scraps. Ensure food containers are empty

NO wet plastic bags or packaging

NO food scraps or garden organics

NO washing or hauled

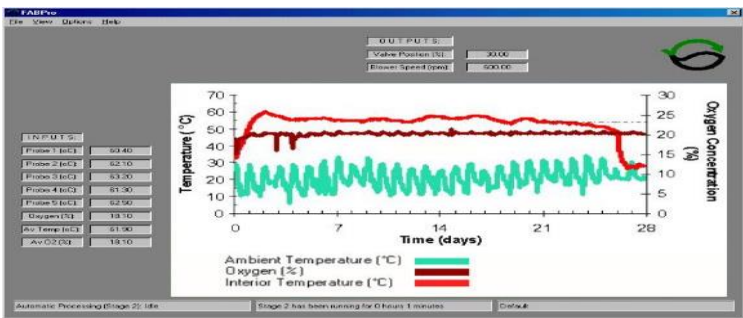
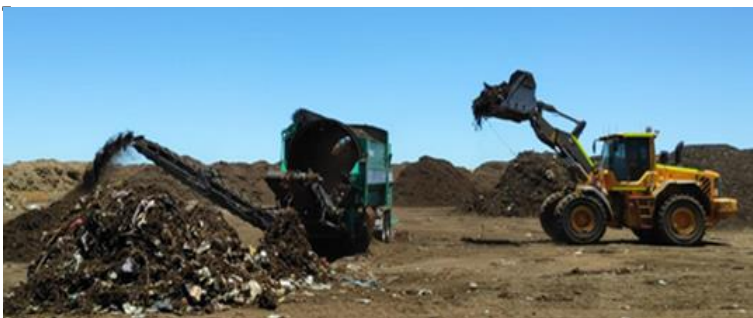
**OTHER**

THANK YOU FOR YOUR EFFORTS

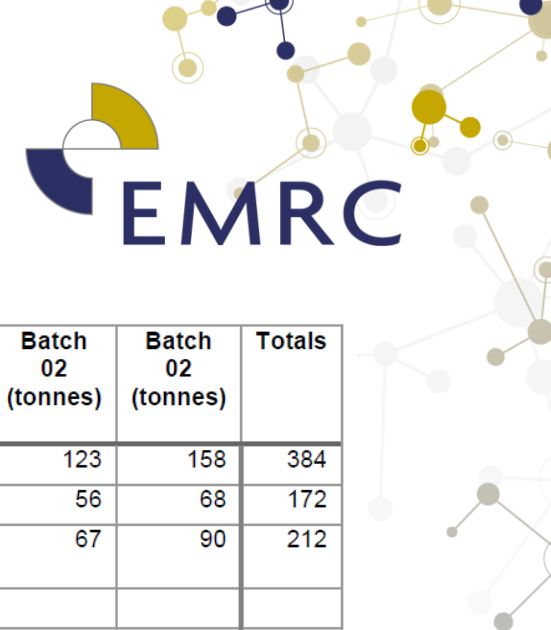
[recycleright.wa.gov.au](http://recycleright.wa.gov.au)[bassendean.wa.gov.au](http://bassendean.wa.gov.au)

# CE and Decarb Initiative – FOGO

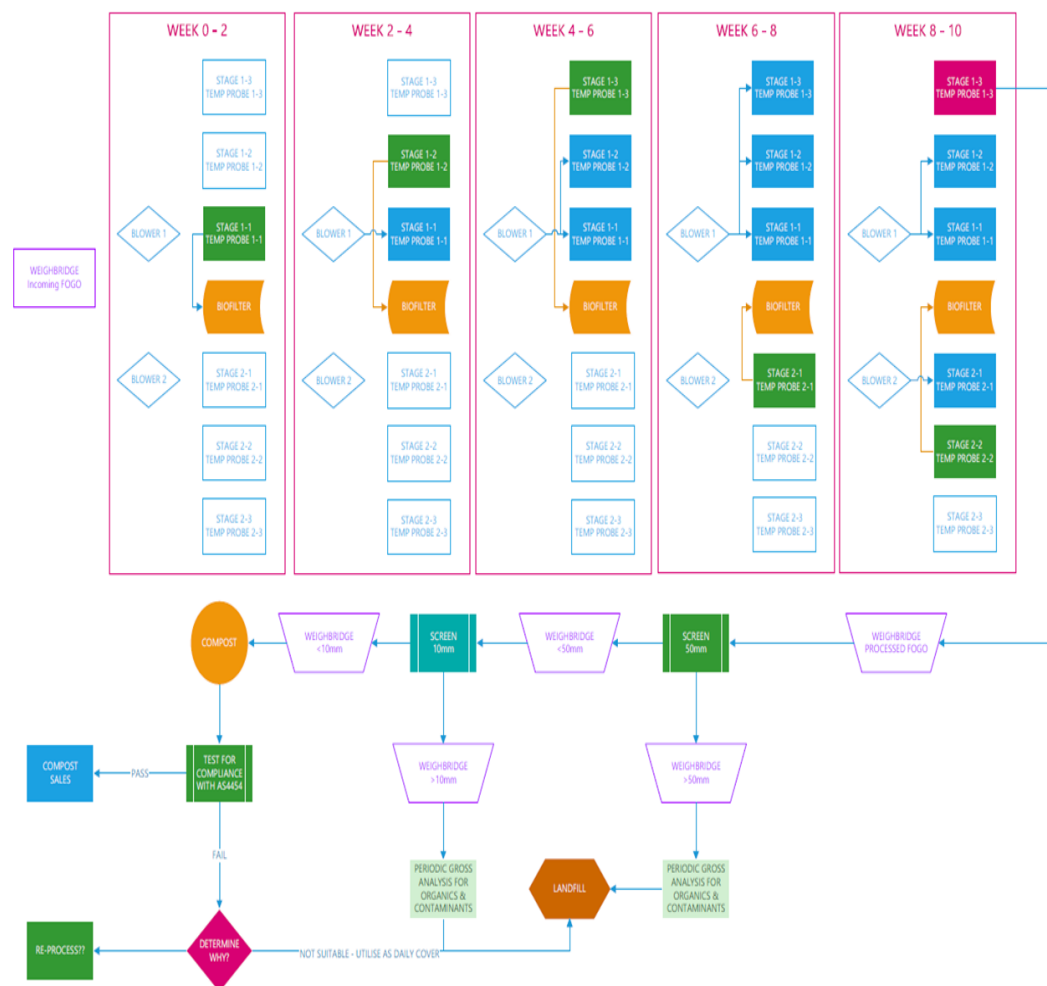
Food Organics Garden Organics



# FOGO Red Hill - Mass Balance



FOGO INTERIM FACILITY – STAGE 01  
OPERATIONAL FLOW CHART – TOWN OF BASSENDEAN FOGO ONLY

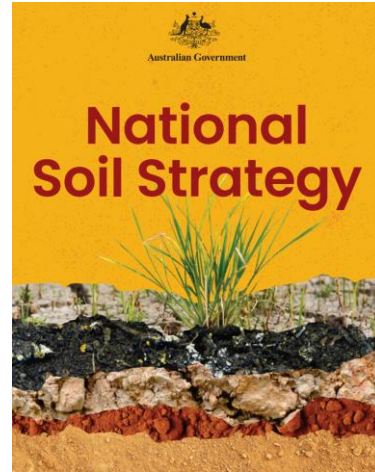
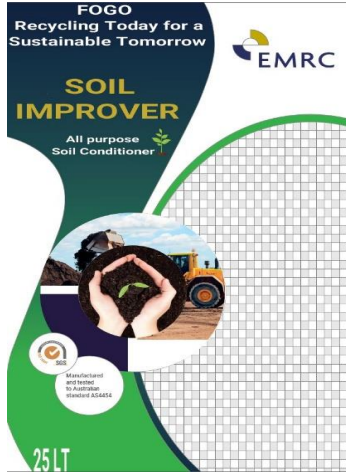


Process	Process Location	Weighbridge (Flow Chart Ref. No.)	Batch 01 (tonnes)	Batch 02 (tonnes)	Batch 02 (tonnes)	Totals
FOGO	Stage 01	1	103	123	158	384
Unscreened Compost		2	48	56	68	172
<i>Composting Losses (moisture, organic breakdown)</i>						
			55	67	90	212
Screen #01 (50mm)	Stage 02	2	48	56	68	172
<i>Screening Losses (moisture, organic breakdown &amp; windblown light material)</i>						
			Not Recorded Estimate 8 tonnes			28
> 50mm	Landfill	3	11	9	10	31
< 50mm	Stage 02	4	29	37	47	113
Screen #02 (10mm)	Stage 02	4	29	37	47	113
<i>Screening Losses (moisture, organic breakdown &amp; windblown light material)</i>						
			5	5	8	19
10 - 50mm	Landfill	5	7	16	10	33
< 10mm	Stage 02	6	16	16	29	61
<i>(Compost for Testing &amp; Sale)</i>						

Table 4: FOGO Mass Balance Summary

Summary	Tonnes	Percentage
FOGO	384	100%
Process Losses (Moisture, organic breakdown, and windblown light material)	259	67%
Contaminated/Oversize to Landfill (Levy Applicable)	64	17%
Compost	61	16%

# Products and Markets



## Collaboration essential:

- ✓ Private Sector – Soil Innovators
- ✓ Academia – Soil Science
- ✓ End Users – Soil Stewards

### Heads of Agreement

Eastern Metropolitan Regional Council (EMRC)  
Office of Major Transport Infrastructure Delivery (OMTID)  
Sustainability Waste Alliance (SWA)

### SWA INNOVATION HUB

Food and Garden Organics (FOGO)  
derived soil conditioner and mulch

Companion Document  
and Product Specifications



McLEODS  
Barristers & Solicitors  
Stirling Law Chambers | 220-222 Stirling Highway | CLAREMONT WA 6010  
Tel: (08) 9383 3133 | Fax: (08) 9383 4935  
Email: [info@mcleods.com.au](mailto:info@mcleods.com.au)  
Ref: ES48351

Sustainability Waste Alliance  
February 2022  
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# FOGO end market – Green Deal Alliance

OMTID | PTA | Main Roads - METRONET



## Green Deal Alliance – (Nov 2021)



Department of Transport  
Main Roads Western Australia  
Public Transport Authority



## METRONET Denny Avenue, Kelmscott

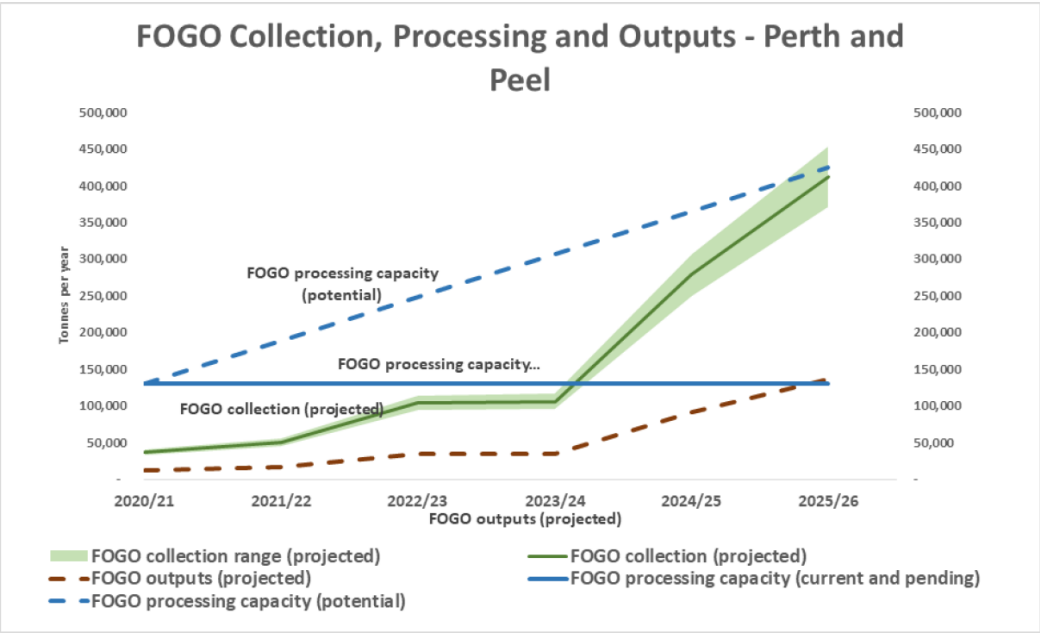
- ✓ Agreed blend for low P application
- ✓ 2,000 m3 AS4419 topsoil and AS4454 soil conditioner
- ✓ First delivery 10 February 2022

## Next steps:

- ➔ GDA developing Model Specs and Business Case for metro
- ➔ Determining volumes and project locations
- ➔ Drafting Off-take Agreement



# FOGO Roll-Out Plan 2020/2025 – Perth and Peel



# EMRC Infrastructure Network



Hazelmere RRP



Bayswater WTS



Red Hill WMP

# Thank You



## **Eastern Metropolitan Regional Council**

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**[www.emrc.org.au](http://www.emrc.org.au)**