

AUSTRALIAN BIOMASS FOR BIOENERGY ASSESSMENT (ABBA)

METROPOLITAN REGION PROFILE

The following region profile has been generated from Victorian biomass data collected as part of the national ABBA project to inform discussions around bioenergy opportunities.

Data is available via the Australian Renewable Energy Mapping Infrastructure (AREMI) – <https://nationalmap.gov.au/renewables/>

Based on modelled data, an estimated 1,723,052 tonnes of organic wastes were generated in the Metropolitan Region in 2014–15, representing 17% of the state's total. A breakdown of this is provided in the Table and Figure below.

The following streams are of particular interest in this region:

- Paper and cardboard and organics (food, garden and timber) from other Commercial and Industrial sectors, a heat map of which is provided below.
- Poultry litter from chicken farming and layer and pullets
- Organics from the Construction and Demolition sector
- Effluent from the Commercial and Industrial manufacturing sector

For each residue, total waste generation has been modelled. Generally, this has involved considering a baseline production figure and applying a residue figure to this. The baseline production figures were derived from ABS data for primary production and from a combination of National Pollutant Inventory (NPI) data on businesses, raw survey data and desktop research for other sectors. In deciding whether to model a residue or not, the type and its validity in the context of bioenergy applications and its current use was assessed.

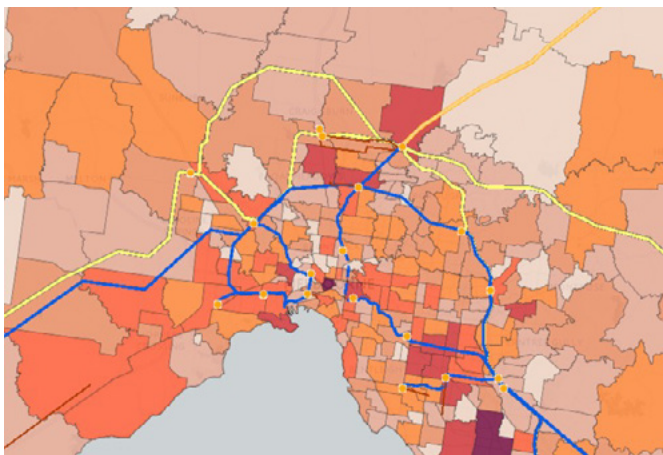


Figure: Total organics generation from Commercial and Industrial - other sector across metropolitan Melbourne

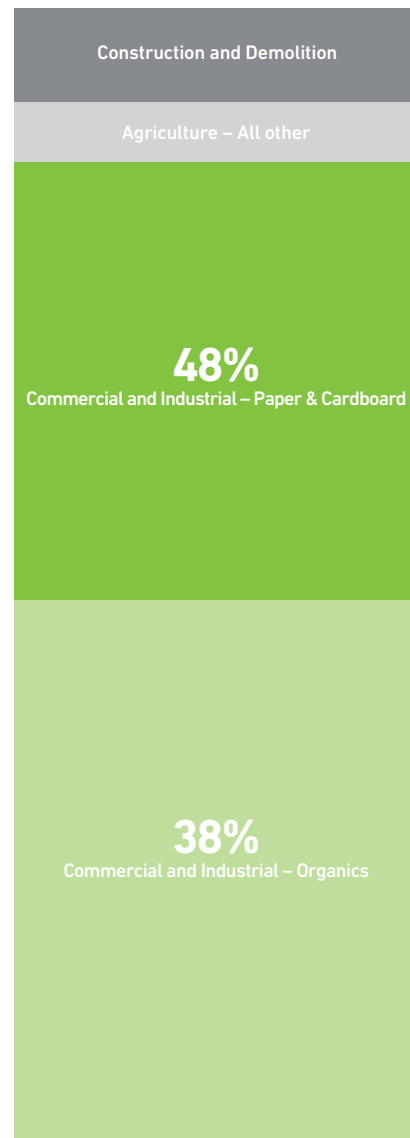


Figure: Metropolitan estimated approximate biomass composition*

* For details please see overleaf

Table: Metropolitan Biomass Assessment Summary

Sector	Stream	Tonnes generated per annum
Agricultural	Straw/chaff	25,960
	Grape marc	1,918
	Cull fruit and vegetable	2,817
	Dairy manure/effluent	12,908
	Cattle manure	2,351
	Poultry litter	34,823
	Pig manure/effluent	191
	Almond Hull and Shells	-
Commercial and Industrial - other	Paper & Cardboard	827,525
	Organics	661,467
Commercial and Industrial - manufacturing	Effluent	8,426
	Paunch	3,209
	Blood	630
	Wastewater	1,038
	Processing solid waste	-
Forestry - Sawmills	Woodchips	4,225
	Bark	71
	Sawdust and Shavings	3,727
Forestry - Plantations	Stump	4
	Branch	25
	Bark	38
Municipal Solid Waste	Organics	1,231
	Paper & Cardboard	3,387
	Biosolids	-
Construction and Demolition	Food Organics	137
	Garden Organics	26,565
	Timber	100,378
Total Generated		1,723,052

For MSW fraction, only the quantities that are landfilled as reported in the Victorian Local Government Annual Survey (2014-15) are included.

Further Information

For more information contact
Julie Went on (03) 8626 8745
email Julie.Went@sustainability.vic.gov.au