

AUSTRALIAN BIOMASS FOR BIOENERGY ASSESSMENT (ABBA)

GOULBURN VALLEY (GV) 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 1,076,144 tonnes of organic wastes were generated in the GV region in 2014–15, representing 11% 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:

- › Straw and chaff production from the broadacre cropping industry
- › Woodchip and sawdust and shaving generation from sawmills
- › Poultry litter from chicken farming and layer and pullets
- › Dairy manure and effluent from the dairy cattle industry
- › Paper and cardboard and organics (food, garden and timber) from other Commercial and Industrial sectors

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: Goulburn Valley estimated biomass composition*

* For details please see overleaf

Table: Goulburn Valley Biomass Assessment Summary

Sector	Stream	Tonnes generated per annum
Agricultural	Straw/chaff	750,194
	Grape marc	1,977
	Cull fruit and vegetable	7,924
	Dairy manure/effluent	107,207
	Cattle manure	5,613
	Poultry litter	8,155
	Pig manure/effluent	8,463
	Almond Hull and Shells	-
Commercial and Industrial - other	Paper & Cardboard	31,266
	Organics	24,230
Commercial and Industrial - manufacturing	Effluent	2,926
	Paunch	1,009
	Blood	-
	Wastewater	2,236
	Processing solid waste	14,065
Forestry - Sawmills	Woodchips	44,948
	Bark	3,172
	Sawdust and Shavings	34,611
Forestry - Plantations	Stump	2,164
	Branch	8,538
	Bark	10,985
Municipal Solid Waste	Organics	317
	Paper & Cardboard	-
	Biosolids	-
Construction and Demolition	Food Organics	7
	Garden Organics	1,266
	Timber	4,869
Total Generated		1,076,144

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