

AUSTRALIAN BIOMASS FOR BIOENERGY ASSESSMENT (ABBA)

NORTH EAST (NE) 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 493,476 tonnes of organic wastes were generated in the NE region in 2014–15, representing 5% 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 broadacre crops
- Woodchips generation from sawmills and bark generation from plantation forests
- 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.

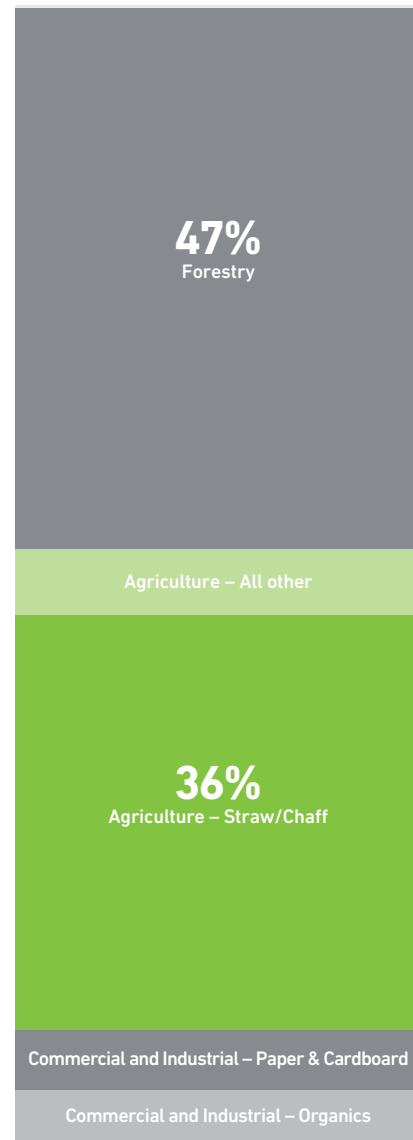


Figure: North East estimated approximate biomass composition*

* For details please see overleaf

Table: North East Biomass Assessment Summary

| Sector | Stream | Tonnes generated per annum |
|---|--------------------------|----------------------------|
| Agricultural | Straw/chaff | 178,619 |
| | Grape marc | 1,623 |
| | Cull fruit and vegetable | 1,001 |
| | Dairy manure/effluent | 16,143 |
| | Cattle manure | 8,747 |
| | Poultry litter | 88 |
| | Pig manure/effluent | 441 |
| | Almond Hull and Shells | 32 |
| Commercial and Industrial - other | Paper & Cardboard | 24,852 |
| | Organics | 25,076 |
| Commercial and Industrial - manufacturing | Effluent | 778 |
| | Paunch | 138 |
| | Blood | - |
| | Wastewater | 170 |
| | Processing solid waste | - |
| Forestry - Sawmills | Woodchips | 76,359 |
| | Bark | 16,244 |
| | Sawdust and Shavings | 36,118 |
| Forestry - Plantations | Stump | 13,226 |
| | Branch | 39,488 |
| | Bark | 52,424 |
| Municipal Solid Waste | Organics | - |
| | Paper & Cardboard | 229 |
| | Biosolids | - |
| Construction and Demolition | Food Organics | 1 |
| | Garden Organics | 396 |
| | Timber | 1,279 |
| Total Generated | | 493,476 |

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

Further Information

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