

Australian Biomass for Bioenergy Assessment (ABBA) – Victoria

Funded by the Australian Renewable Energy Agency (ARENA), ABBA is a national project to identify biomass resources for bioenergy across Australia. Sustainability Victoria is engaged to populate data for Victoria.

Purpose

The purpose of the ABBA project is to catalyse investment in the renewable energy sector through the provision of detailed information about biomass resources across Australia.

In order to achieve this, the project collects, types, volumes and locations of potential bioenergy feedstocks, on a state-by-state basis, for inclusion on the Australian Renewable Energy Mapping Infrastructure (AREMI) platform.

Geospatial data is then made available for use by renewable energy project developers, policy makers and others providing a multi-faceted dataset that will complement existing related information such as energy infrastructure, power utilities, population data and land use data.

As well as providing biomass industry relevant data and information for the AREMI platform, the project will assist in creating 'market pull' for bioenergy through tying bioenergy availability to biomass demand.

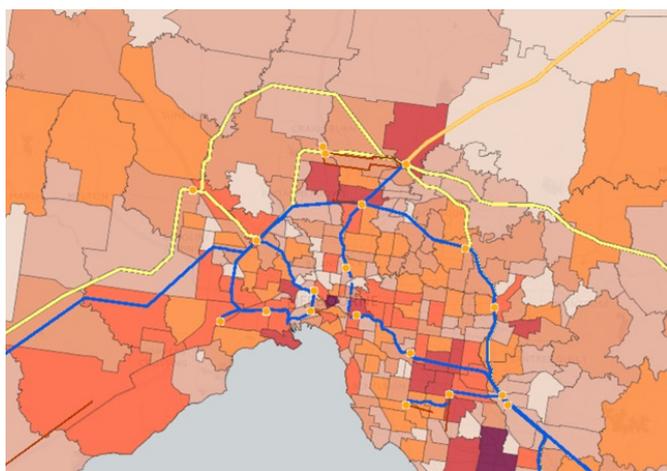


Figure 1 Example image, including transmission network and substations (AREMI)

Victorian biomass data

The ABBA project supports the Victorian Government's policy objective of accelerating the development of renewable energy generation in Victoria and aligns with the Victorian Organics Resource Recovery Strategy to 'identify locations and volumes of available biomass across regional Victoria'.

During 2016, Sustainability Victoria (SV) commenced an assessment of the municipal solid waste (MSW), commercial and industrial (C&I) and construction and demolition (C&D) waste streams to determine the quantities of biomass residues that are generated in Victoria. The data was supplied to the AREMI platform to support the ABBA project (see Figure 1).

Key activities to date include:

- data acquisition based on an initial survey and modelling based approach;
- a series of engagement workshops (Aug-Sept 2016); and
- targeted consultation with selected high priority stakeholders, eg crop, livestock, beef/chicken/dairy manufacturing

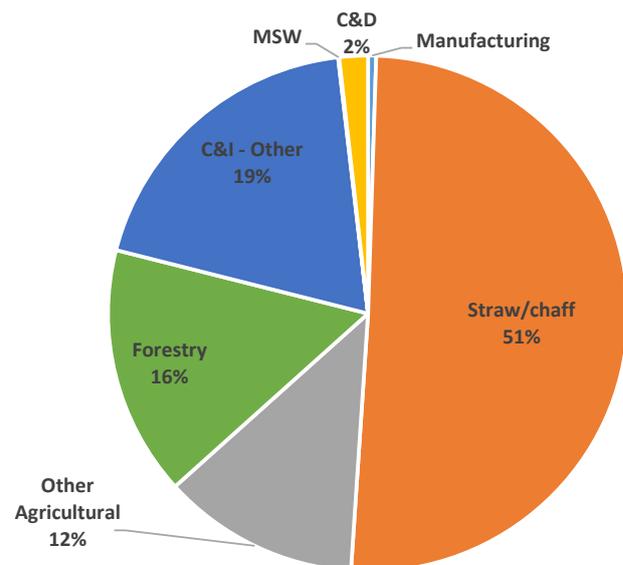


Figure 2 Composition of biomass across Victoria



By August 2017, up to 70 separate residue files will be uploaded to the AREMI platform including the following types:

- › Primary Production: cropping, fruit and vegetable, livestock
- › Plantation – Forestry: hardwood, softwood
- › C&I Manufacturing: dairy product manufacturing, fruit and vegetable processing, meat processing, sawmill residues (plantation), wine production
- › C&I Other (organics, paper/cardboard)
- › C&D (Garden, food, timber)
- › MSW (organics and paper/cardboard)

SV estimates that 10 million tonnes/per annum of organic residues are generated and potentially available for recovery across Victoria through the C&I, C&D and MSW sectors. The three largest streams (see Figure 2) are:

- › Straw/chaff
- › Organics from the C&I sector; and
- › Forestry/sawmill residues from plantations

The next stage of the ABBA project will focus on strong engagement with target industry sectors to further refine data and identification of areas of potential interest for industry investment. To view available data, visit:

AREMI platform

<https://nationalmap.gov.au/renewables/>

To provide feedback on data uploaded to AREMI, please see further information for contact details.

SV support services

SV's Investment Facilitation Service promotes local opportunities in the sector, supports development of business cases for investment and coordinates investor relationships with the Victorian Government. For more information on this service, visit: www.sustainability.vic.gov.au/invest or Phone (03) 8626 8746 email invest@sustainability.vic.gov.au

Further Information

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