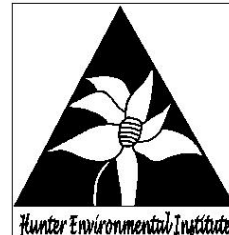


# Biomass Utilisation in Australia



HEI has pleasure inviting all members and guests to a seminar on biomass utilization in Australia. Professor Behdad Moghtaderi (University of Newcastle) will provide a broad overview of this renewable energy resource and will discuss the challenges faced by the industry.

**Speakers:** Professor Behdad Moghtaderi (Deputy-Director, Centre for Energy, Chemical Engineering, The University of Newcastle)

**When:** **Wednesday 15 April 2009**

**Time:** 4pm – 6pm (4pm refreshments, 4:30pm seminar)

**Venue:** Customs House Hotel - Harbour Masters Room

**Cost:** \$20 for members, \$25 for non-members. Please pay by cash or cheque on the day

## Background

Biomass is used extensively at present within Australia, primarily for domestic heating, as feedstock for biofuel and biochemical production, and for electricity generation. Biomass usage for electricity generation is increasing and is expected to reach 5.2 Mt/year by 2019-20. Exports, as wood chips, are approximately 10 Mt/year in 2000-01. Forestry residues have been estimated to be 23 Mt/year.

The first part of this review provides information on Australian biomass resources (including bagasse, black liquor from paper pulp production, wood waste and forestry residues, energy crops, crop wastes, food and agricultural wet waste, and municipal solid wastes) while the second part deals with utilization technologies. The characteristics of the Australian biomass are typical of those of other countries, i.e. high moisture and volatile matter, low heating value and density, and low sulfur and nitrogen content, but high Ca and Mg for woody biomass. The characteristics influence biomass utilization. Current technologies that utilize biomass in Australia include those for electricity and heat by direct combustion, co-firing with coal and fluidized bed combustion, biogas generation from landfills and aerobic digestion, as well as ethanol production from molasses and wheat.

RSVP by Friday 10 April 2009 preferred method via [www.hei.org.au](http://www.hei.org.au) or to Maurice Stewartson [Stewartsonm@ap.aurecongroup.com](mailto:Stewartsonm@ap.aurecongroup.com) or phone (02) 49 41 5378.