

WINE INDUSTRY SECTOR AGREEMENT

Climate Change & Greenhouse Emissions Reduction



Government of South Australia Wine Grape Council SA



SOUTH AUSTRALIAN WINE INDUSTRY ASSOCIATION INCORPORATED

KEY OUTCOMES

The Wine Industry Sector Agreement (2008-2010) was an agreement between the Minister for Sustainability and Climate Change, the South Australian Wine Industry Association Inc and the Wine Grape Council of SA Inc.



The success and value of the information collected for the 2008 - 2010 Sector Agreement has resulted in renewal of the Agreement in May 2011

Key outputs and outcomes from the 2008 - 2010 project work:

Information education and industry participation

- Prepared and distributed an Information Package on climate change and the Sector Agreement
- Published an article about the Sector Agreement in a lead industry trade journal
- Presentations at two leading industry conferences (5th Australian Wine Industry Environmental Conference, 14th Australian Wine Industry Technical Conference) and a one day seminar on improving environmental performance ("10+ ways to reduce your environmental footprint").
- Developed and published an advisory booklet on greenhouse gas reduction strategy for the wine industry

Calculating greenhouse gas emissions

- Developed the Australian Wine Carbon Calculator (AWCC) and User Guide
- Trained and assisted grapegrowers and winemakers in using the AWCC to calculate their greenhouse gas emissions
- Collected greenhouse gas emissions data from a representative sample (101 companies) of grapegrowers, winemakers and packagers that made up 23% of grapes grown and 76% of grapes crushed in the State

Key Findings

- Improved estimates of emission intensities that will help create a clearer understanding of the industries life cycle emissions in the future.
- The emission intensities for individual business showed extreme variability due to the highly varied structure of businesses in the industry in respect of practice, including contracting of services and bulk trading. The table shows average emission intensities for specific business types.

Business Type	Estimated Average Emission Intensities	Range
Grape growing	185 kg CO ₂ e / T harvested	35 - 325
Wine processing	116 kg CO ₂ e / T crush equivalent	30 - 200
Packaging	106 kg CO ₂ e / T crush equivalent	14 - 280

Note: 'crush equivalent' is based on the assumption of 700 L/Tonne overall yield from wine grapes. Range excludes the top and bottom 10% of data to remove extremes for ease of interpretation

The significance of the sector's contribution

The work undertaken through the Sector Agreement has allowed an estimation of the total direct annual emissions for the SA wine sector (grapes to bottle) as approximately 0.277 MT CO₂e. This represents approximately 0.05% of the total emissions for Australia (582 MT CO₂e) and 0.11% of the total for the Australian agricultural sector (86 MT CO₂e).

The achievement of estimation of emissions intensity factors for wine production on an industry-wide basis is believed to be a world leading initiative.

¹ Greenhouse gas is largely made up of carbon dioxide (CO₂) but other gases also contribute to global warming and are expressed in units of carbon dioxide equivalents (CO₂e).

² Australia's emissions projections, Department of Climate Change and Energy Efficiency, 2010

For further information, please contact

Mark Gishen, Project Manager
or visit the SAWIA website
Tel: 08 8222 9277
Fax: 08 8222 9276

www.winesa.asn.au

Industry Offices
National Wine Centre
Botanic Road,
Adelaide, SA 5000