Wine Australia for Australian Wine

Towards CarbonZero for the Wine Sector

9 August 2021

Dr Sharon Harvey

RD&A Program Manager



Our role

Our role is to:

- coordinate or fund grape and wine
 research and development, and facilitate
 the dissemination, adoption and
 commercialisation of the results
- control the export of wine from Australia
- increase the demand for Australian wine, both in Australia and overseas, through targeted promotion and marketing activities.

We also enhance commercial opportunities through regulation, market access and market insights.

Climate change is real

It is caused by humans burning fossil fuels

We're already dealing with the effects in our vineyards and wineries

The consequences of climate change



Generally hotter and drier



Change in rainfall patterns



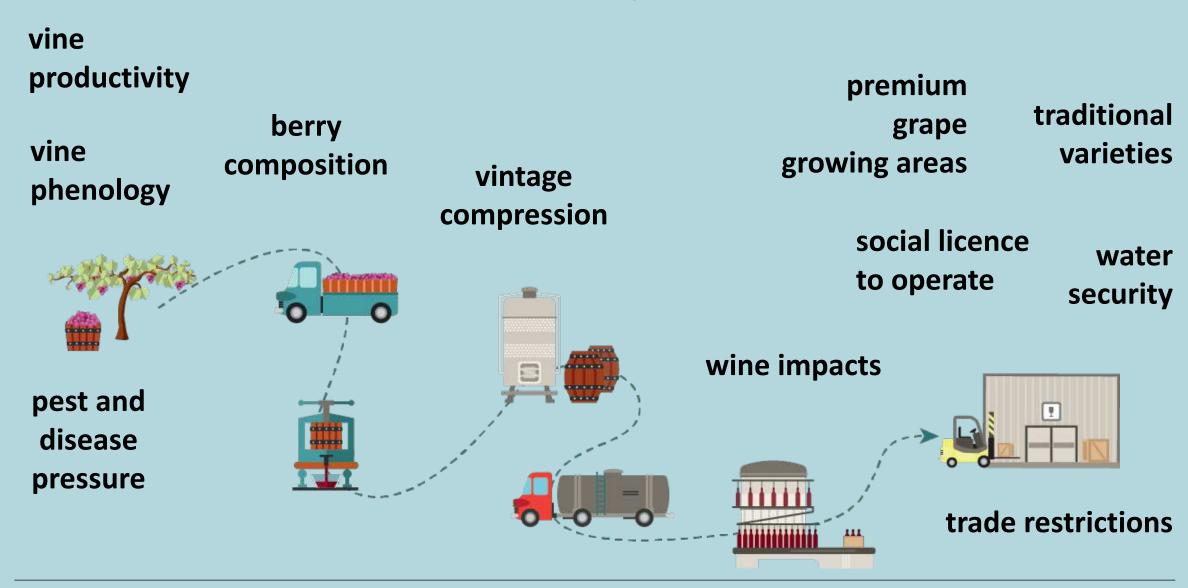
Increased climate variability



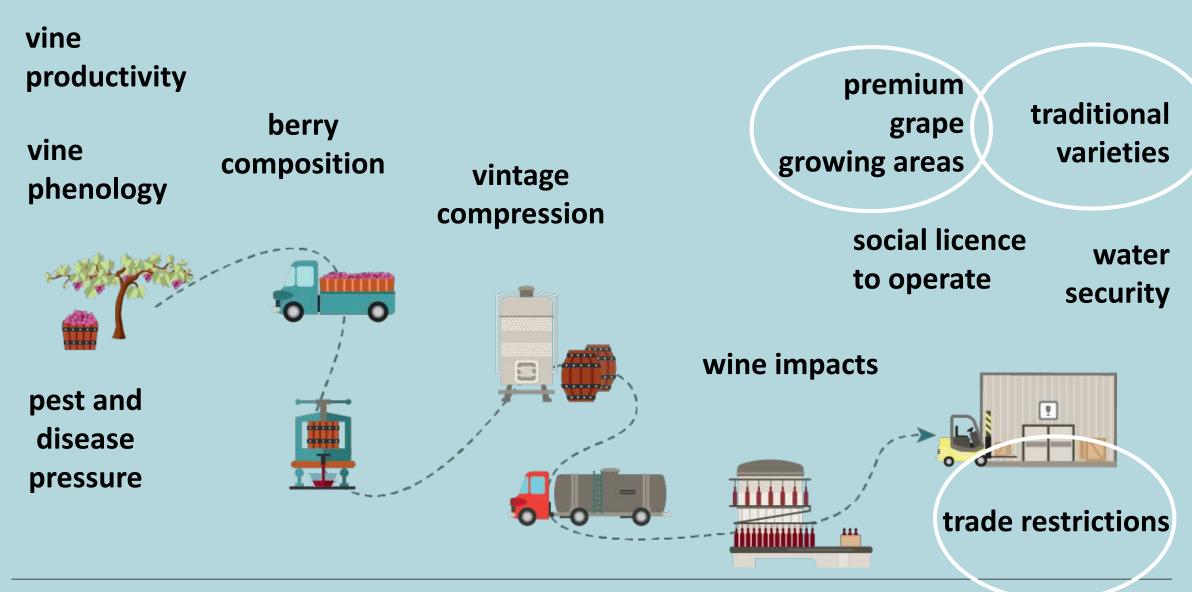
More frequent climate extremes



Climate change threats to wine production

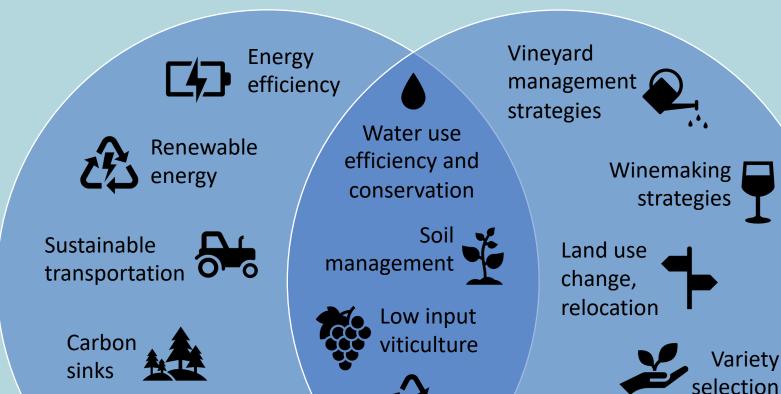


Climate change opportunities for wine production



Building climate resilience

Mitigation



Adaptation

Action to reduce the emissions that cause climate change



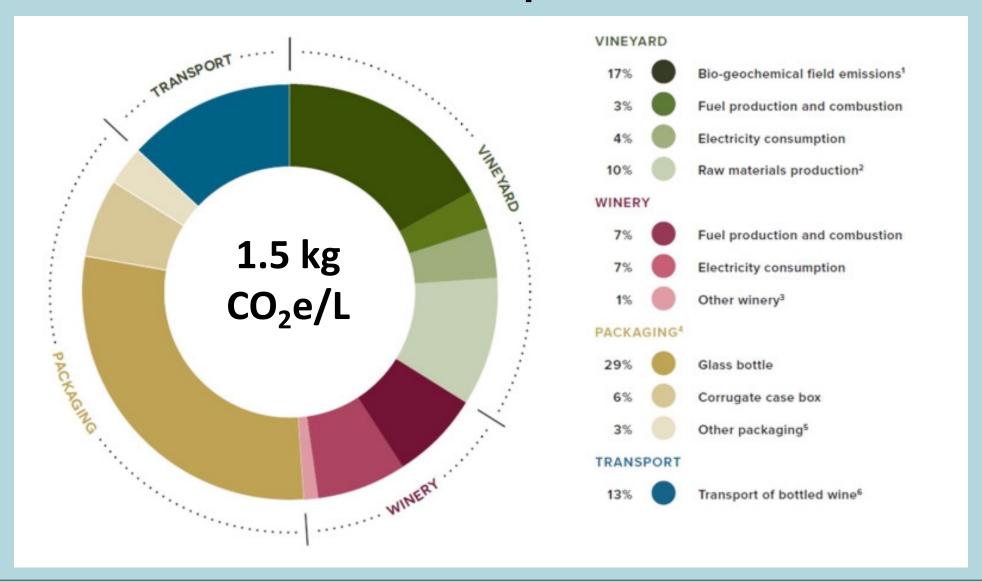
ular
New energy
systems



Business continuity planning

Action to manage the impacts of climate change

The carbon footprint of wine



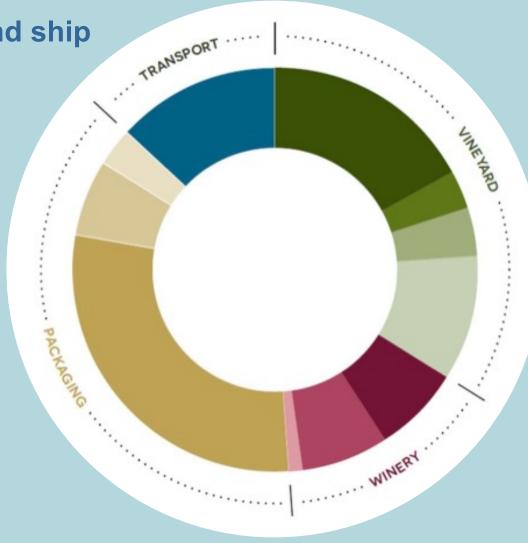
The carbon footprint of wine: abatement opportunities

Truck and air to rail and ship

Bulk shipment

Lightweight, alternative packaging

Sustainable secondary packaging



- Reduce fuel use
- Optimise inputs
- Manage nitrogen
- Manage soil

- Energy efficiency
- Renewable energy
- CO₂ capture

The International wine sector responds

- International Wineries for Climate Action is a collaborative working group of wineries committed to reducing carbon emissions across the wine industry. Founding members are Familia Torres and Jackson Family Wines
- The Porto Protocol is an international foundation whose members foster climate solutions for the wine industry and who are committed to climate mitigation across the entire wine value chain
- Many international wine-producing countries and regions have **sustainability certification programs** which include carbon footprint reporting (NZ, California, Great Britain, ...)
- The International Greenhouse Gas Protocol and Accounting Tool is an inventory of factors and a tool for Greenhouse gas accounting in the vine and wine sector.

The Australian wine sector responds

- Ready adoption of solar energy
- Individual businesses using sustainable production practices, adopting long-term environmental strategies and striving for carbon neutrality
- Five wine companies are certified carbon-neutral
- Sustainable Winegrowing Australia launched in July 2019 and incorporates the Australian Wine Carbon Calculator to capture emissions data
- The grape and wine sector aims to have zero net carbon emissions by 2050 (Australian Grape & Wine's Vision 2050)

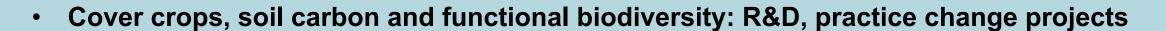
Adaptation strategies

- Smoke taint remediation strategies, an early warning remote smoke sensor network, smoke taint analytics and a predictive real-time tool for risk
- Extreme weather predictions out to four weeks (heat, cold, frost and rain)
- Update of Wine Climate Atlas to include finer resolution climate data
- Irrigation best practice: benchmarking and practice change projects
- Variety clonal trials across diverse climates
- Rootstock and scion breeding for improved stress tolerance

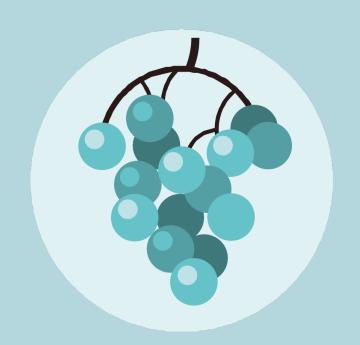


Mitigation strategies

- Develop roadmap to CarbonZero for the wine sector
- Establish a baseline of greenhouse gas emissions
- Practice change projects and resources to assist the sector to reduce emissions



- Circular economy for CCA treated posts and other vineyard and winery waste
- Updating carbon tool embedded in SWA, add abatement activities



A climate of opportunity across agriculture sectors

- CRSPI Climate Research Strategy for Primary Industries
- Agriculture Innovation Australia priority plans Climate Resilience (\$80-100m)
- Common Carbon Methods project CSIRO
- AFI: Australian Agriculture Sustainability Framework
- Commonwealth Adoption and Innovation Hubs: enhance drought resilience practice, tools and technology (\$86m)
- Food Agility CRC Cool Soil Initiative reducing emissions by supporting soil structure and function

Key messages

We're doing OK...

Aim for zero greenhouse gas emissions across the supply chain

Commit to targets as a sector

Continue to innovate and collaborate

Adapt existing vineyards to changes we can't avoid

The wine sector can lead the way on emissions reduction



Staying in touch – www.wineaustralia.com/signup

Sign in Email address Possered Please refer to our Privacy Policy By again group growth for authorities Authorities and export morket guides. Please refer to our Privacy Policy By algoing by purpose confirm that you accept our terms and conditions. Forget possword Forget possword SIGN IN About Wine Australia Our team Our Board Media releases Forms & templates Contact Wine Australia Our team Lotset news Wine facts Wine facts Vine facts Emplates Contact Wine Australia Contact Wine Austra	Wine Australia			Discover Australian Wine What	t's happening Market insights Research	Growing & making Exporti	ing Labelling News	
About Wine Australia News Pay my account Stories of Australian Wine Our Board Media releases Forms & templates Contact Wine Australia Our team Latest news Wine facts Call +61 8 8228 2000 Fax +61 8 8228 2006	Home / SignUp	Sign in Email address	Sign up Create your account to subset of the second of th	Sign up Create your account to subscribe to Wine Australia news. Providing your exporter ID or wine-related ABN will give you access to all market insights reports and export market guides. Please refer to our Privacy Policy, By signing up, you confirm that you accept our terms and conditions. FOR LEVY PAYERS: ACCESS ALL REPORTS AND FOR OTHERS: SUBSCRIBE TO NEWS AND SELECT				
Our Board Media releases Forms & templates Contact Wine Australia Our team Latest news Wine facts Call +61 8 8228 2000 Fax +61 8 8228 2066								
Our team Latest news Wine facts Coll +61 8 8228 2000 Fax +61 8 8228 2066		About Wine Australia	News	Pay my account	Stories of Australian Wine			
		Our team Relationships		Wine facts	Call +61 8 8228 2000 Fax +61 8 8228 2066			

sharon.harvey@wineaustralia.com