



**SA Wine Industry Association**

**Energy Efficiency in the Wine Industry**

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### Keep it Simple

- As a society, we tend to overcomplicate solutions
- Savings can be attained simply



### Example – Sinclair’s Gully

- Part of Adelaide Hills EcoMapping<sup>®</sup> Cluster
- Taught to focus on issues




### Example – Sinclair’s Gully

- Reduced carbon emissions in 2008/2009 by 30% by
  - ✓12% switch off campaign
  - ✓9% from petrol to diesel
- Reduced carbon emissions in 2009/2010 by a further 27% by
  - ✓Solar panels
  - ✓Reduced driving
  - ✓Extend Switch off campaign
- Reduced winery costs 4% year 1 and 1 % year 2




### Expected Savings

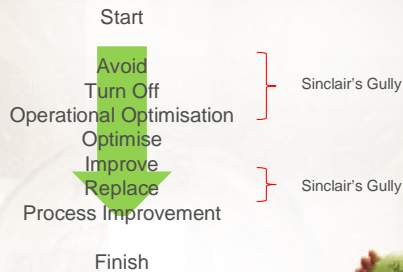
- Sinclair’s Gully results exceptional but not abnormal
- Most of their measures are “simple”
- As a society, we are not doing the simple stuff!
- Federal Government has quoted savings of energy consumption of 20% typical for organisations who have not conducted energy efficiency programs
- In reality, 10% to 20% energy savings not unrealistic.



### Waste Hierarchy

## Energy Efficiency Process



## Refrigeration, Major Energy Consumer in Wineries

- Different technologies, different capital costs and energy consumption
- Ammonia, large systems, half the energy consumption
- Packaged systems, smaller, twice the energy consumption

## Example, Taylors Wines Refrigeration Upgrade

- 1 year detailed review of refrigeration requirements
- Resulted in upgrade of refrigeration infrastructure to Ammonia/Brine
- Expect 35% energy savings when project complete
- As packaged systems replaced, energy savings of 45% expected.
- Received \$500,000 AusIndustry Funding assistance

## When to review processes and optimise

- When you replace equipment
- When you are about to conduct an upgrade/expansion

## What I recommend you do

- Focus (by implementing an Environment Action Plan, such as EcoMapping<sup>R</sup> (Farmready approved))
- Work as a cluster – exchange ideas
- When your organisation is expecting major changes, conduct detailed reviews and get expertise
- Work at keeping it simple
- Integrate business practices

Don't be penny wise, pound foolish.  
Ask for advice.