## Sustainability victoria



# Towards Zero Waste – Sustainability in Action Victoria, Australia

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#### Towards Zero Waste: a year in review

- > 54% of waste generated recovered for recycling (2004/05)
- > 95% of Victorian households have access to kerbside recycling (2004)
- > Victoria recycles 80.3% of the newspaper it consumes (2004)
- > Victorian businesses recycle >60% of the waste they generate
- > 1000 schools participate in Waste Wise and 800 teachers trained
- > ECO-Buy members spent \$80m on green products (2005)
- > 3.2m people attended public events that were Waste Wise

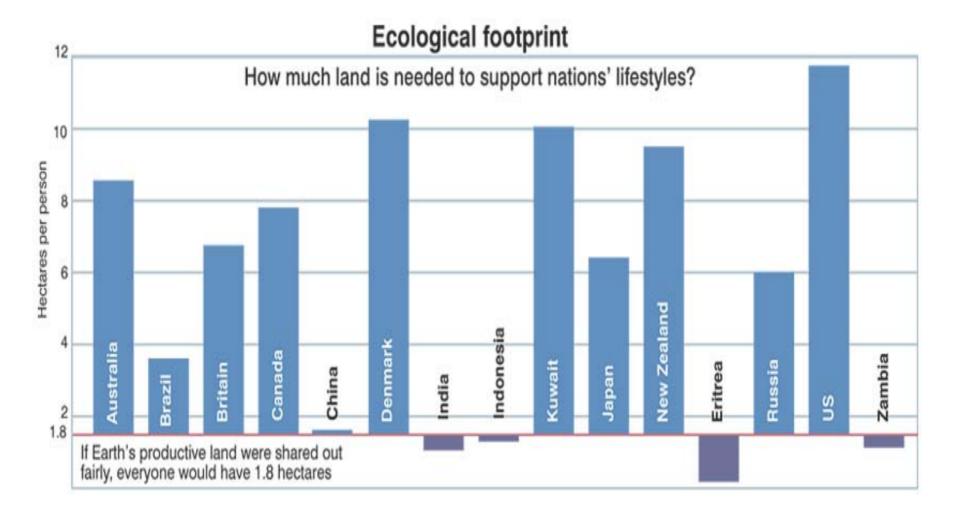




Despite an excellent record for recycling, Victoria remains one of the highest per capita waste generators in the world, and one of Australia's largest contributors to solid waste.



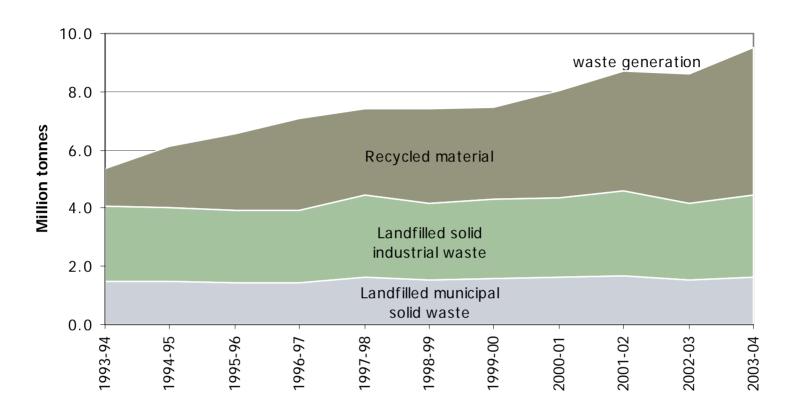








#### Solid waste generation, Victoria 1993-94 to 2003-04



Reduce solid waste by 1.5m tonnes by 2014 Reduce amount sent to landfill by 50% Increase recycling from 53% to 75%





#### **GROWING VICTORIA TOGETHER**

- More quality jobs and thriving, innovative industries across Victoria
- · Efficient use of natural resources

THE SUSTAINABLE
STATE

ENERGY FOR THE FUTURE

OUR ENVIRONMENT OUR FUTURE (ENVIRONMENTAL SUSTAINABILITY FRAMEWORK)

GREENHOUSE STRATEGY GREENHOUSE CHALLENGE

SECURING OUR WATER FUTURE

TZW STRATEGY MELBOURNE 2030

RENEWABLE ENERGY AND ENERGY EFFICIENCY STRATEGIES

**Under development** 

Sustainability Victoria Act

**Environment Protection Act** 

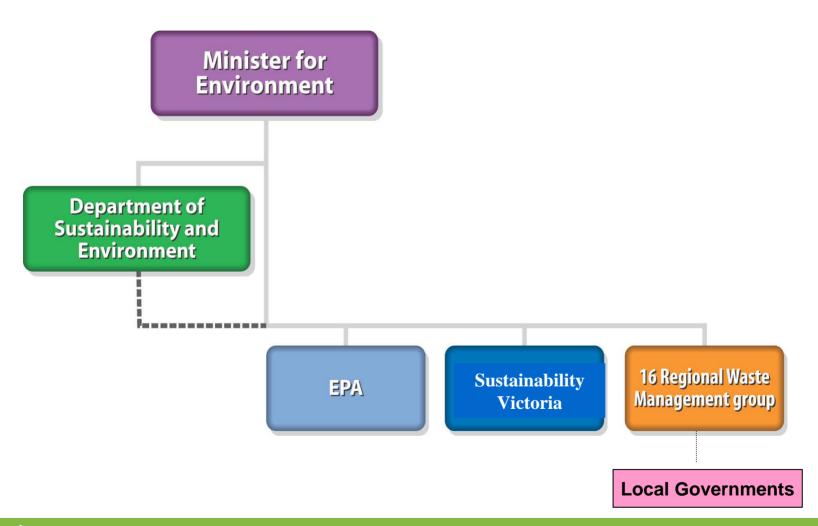
**Water Act** 

**Energy Act** 





#### **Government Structures**











- Formed from the Sustainable Energy Authority Victoria and EcoRecycle Victoria, as well as taking on an element of the State's water program, in October 2005
- <u>Vision:</u> Victorians demonstrating sustainable resource use to support a thriving community and economy.
- Budget ~ \$ 40 million( including Victorian landfill levy)
- Strategic Directions
  - **□**Engaging Victorians
  - ■Transforming markets
  - Making connections
- 110 staff





## Sustainability in Action: Towards Zero Waste Strategy for Victoria

- Increasing materials efficiency and reducing solid waste generation by 1.5m tonnes
- Increasing the sustainable recovery of materials for recycling and reprocessing to 75%
- > Reducing the environmentally damaging impacts of waste





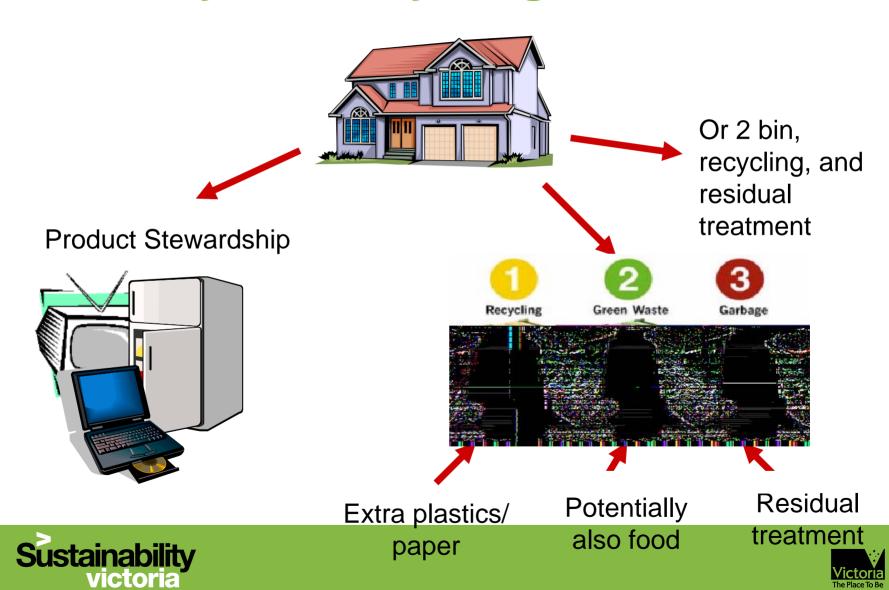
## **Sector Targets**

Recovery Rate ( by weight)	2002/03	2008/09 Target	2013/14 Target
Household Waste	35%	45%	65%
Commercial & Industrial	59%	65%	80%
Construction & Demolition	57%	65%	85%





## Recovery and recycling: households



#### Best Latice Kerbside Recycling

**Best Practice Kerbside** 

Recycling System covers just under 60% of Victoria.

\$11m invested across 41 councils





#### **Achievements**

- 95% of households with access to kerbside recycling services
- 41/79 councils are implementing best practice program
- \$11 million in kerbside support to local government
- \$18 million in infrastructure support to over 270 recycling facilities throughout Victoria
- Average service cost \$ 29 per household up from \$ 28 in 2001/02
- Average contamination rate 6.3%
- Kerbside recyclables cost \$ 130 per tonne for best practice councils and \$ 140 for others, inc collection.





## **Education & Community programs**

> Away from Home Recycling

> Regional Education



1000 Wise Schools (and 800+ teachers trained)





#### Funding external partnerships with business

- Investment in 5 positions in sectors representing 30 Billion of GSP
  - Master Builders Association- funded position
  - PACIA- funded position
  - Aust Industry Group- funded position
  - EcoBuy for Business- funded position
  - Tourism Victoria funded position





#### Infrastructure Investment \$13m

BaxVis Resource Recovery Plant C & I/C & D MRF





Optical Separation & Sorting of Glass, Laverton

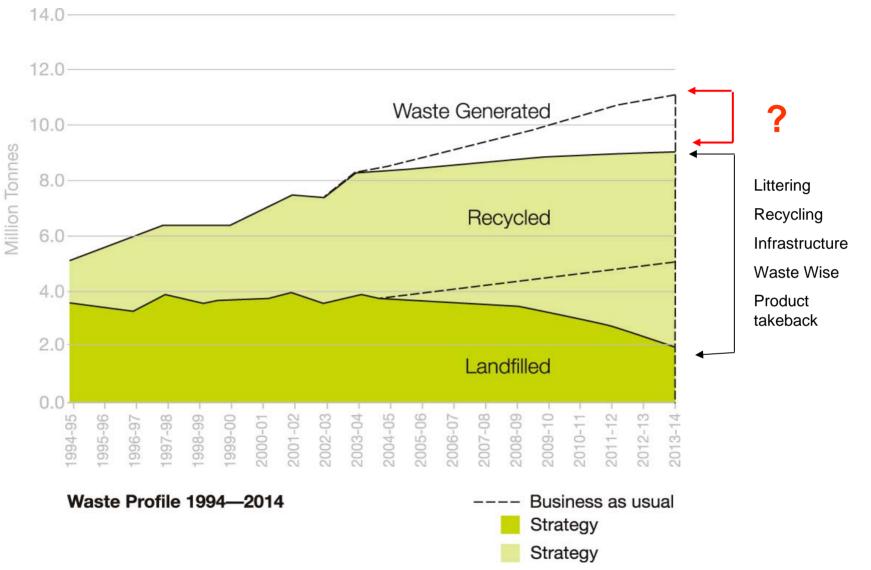


Rural Transfer Station, Horsham



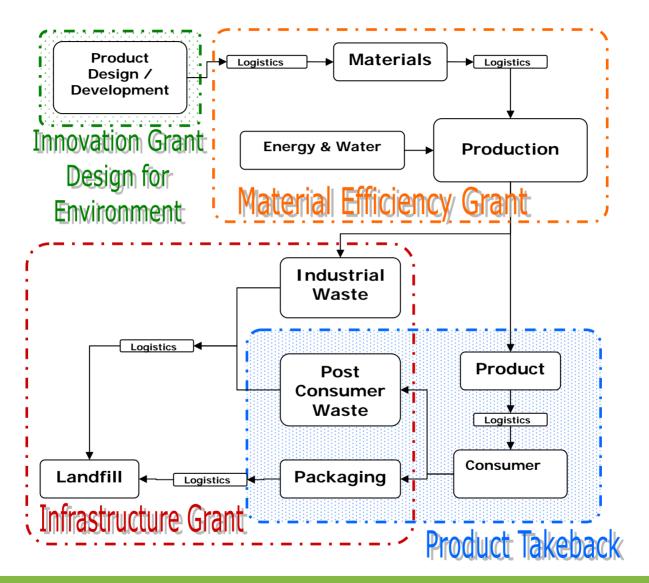


#### Solid waste generation in Victoria—past, present and future





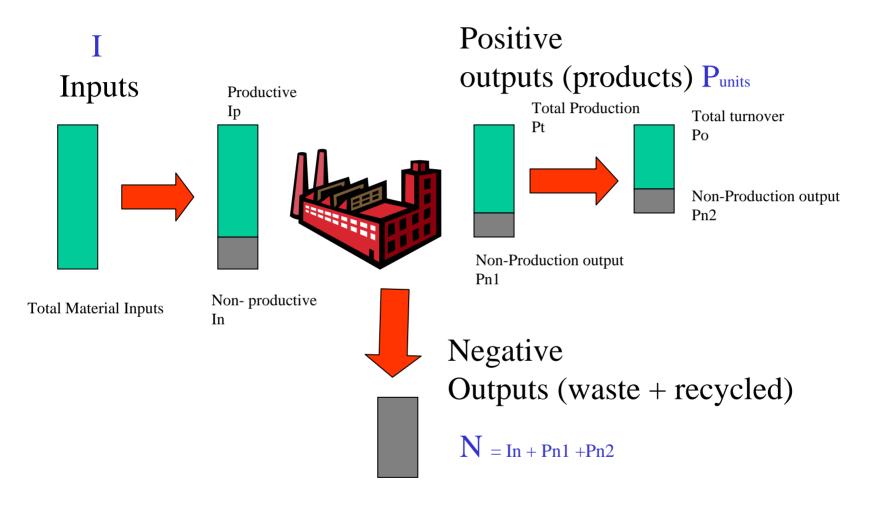








#### Materials efficiency – a different appraoch







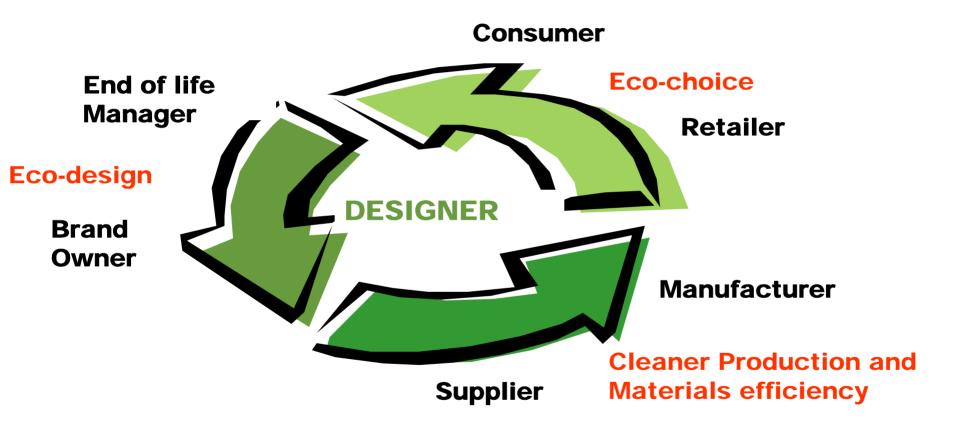
## **Materials efficiency**

- > 17 companies participated
- Value of raw materials lost through non-productive material flows was in excess of \$23 million pa.
- > Total waste generation by the companies was 12,500 tpa
- > Total waste management costs were only \$950,000 pa
- > Ratio of lost raw material value to waste management costs - 24:1





## 70% of a products environmental impact is locked in at the design stage

















#### **Design for Environment** and Product Innovation

Professional Practice Guidelines

October 2004

practice Note



Design Institute of.

#### Simple Actions... Sustainable Product Outcomes

Design for Environment (DfE) or EcoDesign is about developing products in a way that reduces their environmental impact.

The aim is to design products that are functional, desirable, cost effective, and have no harmful side-effects on the environment.

In today's world, good design includes attention to environmental objectives.

and with a different topic.

This first issue sets the scene by providing a general overview and and content stage. Future issues will be delivered to you with Curve magazine, when when it is not stage to the stage of the stag

eedback and comments are welcome, and suggestions for future topics are trongly encouraged. Contact Product Ecology to discuss further at email: ifo@productecology.com.au or telephone (03) 9417 0124.

these impacts, often through straightforward methods.

















Clear targets and policy direction

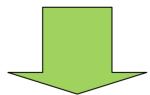
\$\$ to seed and invest - landfill levy

Infrastructure

Local Govt and community support

Beyond recycling

Action Plans and programs



**TRANSFORMATION** 





http://www.sustainability.vic.gov.au



