

Paul Barton
Office of Environmental Sustainability

Monash University – A leader in environmental sustainability teaching and research!

What about its own environmental practice?



Greening up our act

www.monash.edu.au/green

www.monash.edu

Environmental Sustainability at Monash:

- Leader in environmental teaching



*Course Example: Graduate Diploma of Environment and Sustainability
Students are introduced to team-based interdisciplinary research and complete a broad range of electives.*

- Leader in environmental research



Example: Three of Australia's top universities have formed an alliance to spearhead national leadership in climate change research, education and policy. Monash University, led by Professor Amanda Lynch – May 2007

- Leader in environmental practice



Example: waste management, water efficiency and harvesting, energy efficiency and onsite renewables, sustainable transport, Green IT, sustainable food

Why is Monash Going Green



Buildings and infrastructure



Students and staff



Energy



Water



Recycling



Transport



Development



Green IT



Purchasing



Carbon Neutral



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Built Environment

- Build green
 - ESD & Green Stars
- Refurbish green
 - ESD reviews, audits
- Maintain green
 - Building measurement, controls and automation



Committed to Energy Reduction:

Lighting and energy efficiency measures including lower wattage lighting and sensor controlled lighting has resulted in over 300,000kWh savings per year

Greening up our act



Committed to Energy Reduction

A simple automated, plug-in timer can reduce up to 50 per cent of the electricity used for boiling water.

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Committed to Energy Reduction

Monash is installing low wattage lights across the University replacing 36w T8 tubes with 28w T5 tubes, saving an estimated 250,000kWh per year.

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Committed to Water Conservation



Committed to Water Conservation

At Clayton more than 450 AAA rated shower roses have been installed saving more than 8 million litres of water per annum (or 4 olympic swimming pools).

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Committed to Recycling and Waste Reduction

15,000 paper recycling boxes have been installed in offices across all Monash campuses resulting in:

- (1) Increased paper recycling by more than 12 tonnes in just 3 months;
- (2) The equivalent of 300 trees saved in just 3 months;
- (3) Over 20 tonnes of CO2 saved in just 3 months.

Greening up our act

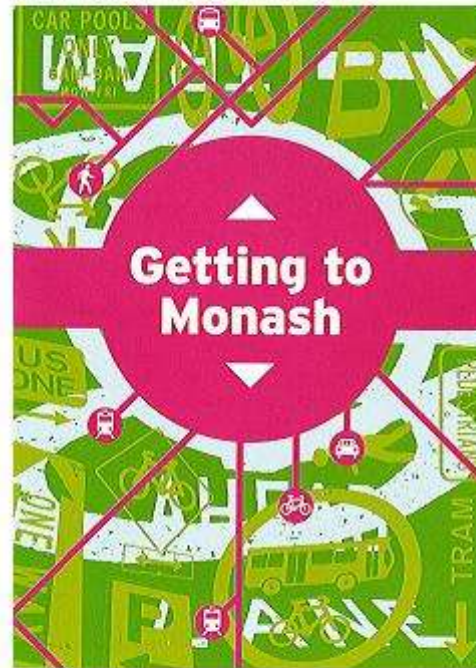


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 **MONASH** University Greening up our act

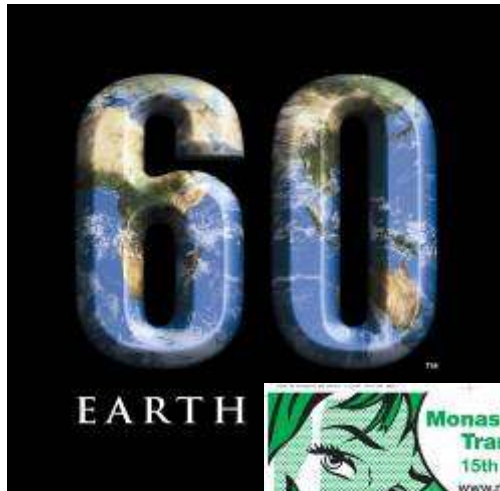


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Engaging the Monash Community



Monash Green Kitchens

www.monash.edu/green

Having fun with products like sugar, tea and coffee? Consider getting a bit ahead for Green Kitchens.

Cleaning around the house takes substantially less of our time, money, oil and water.

7. Using less on your boiling water can reduce its energy consumption by 20%.

For we can a difference!

At 2007 kitchen used in Monash, a significant difference by using energy saving products and energy saving products. Find out what we have in store at www.monash.edu/green

MONASH University Greening up our act

Monash Energy Challenge

www.monash.edu/green

Monash Sustainable Transport Day

15th October 2008

www.monash.edu/green

Thinking for you and your sustainability...

Walk to work and save your 100th day!

Ride to Work and get a delicious free breakfast!

Take Public Transport

Together we can make a difference!

Greening up our act

Have a GREEN Christmas

The Monash End-of-Year Switch Off:

Together we can make a difference!

This year, please remember to switch off all unnecessary lights and equipment before you take your break.

Monash University is committed to achieving a 20% reduction by 2010. Find out what we are doing and how you can help. www.monash.edu.au/green

MONASH University Greening up our act

Monash University Plastic Bag Free Zone

Plastic Bag Free across all Victorian campuses

We still need your help. Seen a plastic bag around campus? Tell us www.monash.edu.au/green/action

Bring your own reusable bag to campus.

Say no to plastic bags!

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“Sustainability Matters”

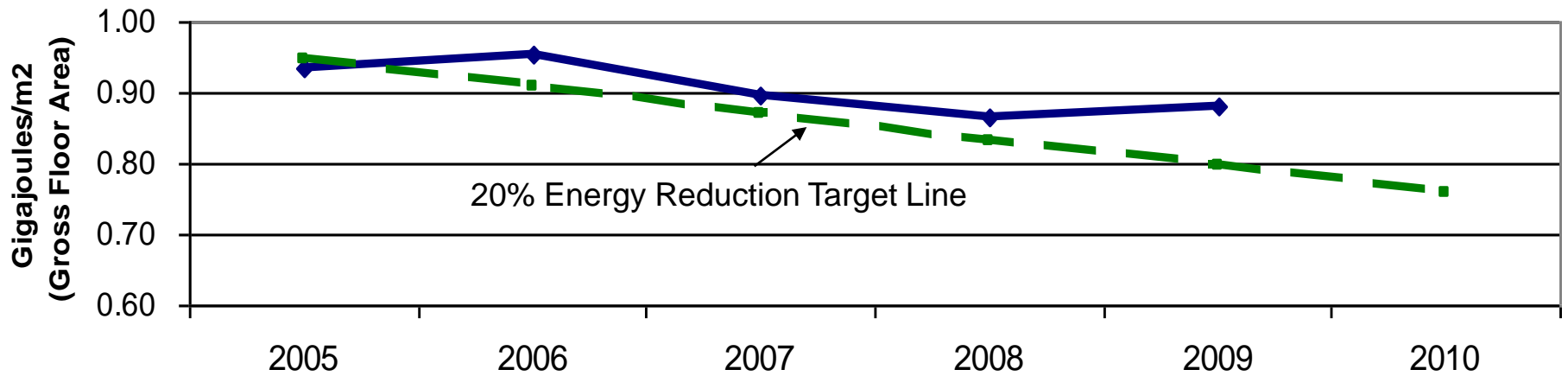


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How are we going - Energy

Energy Usage (Gas + Electricity)

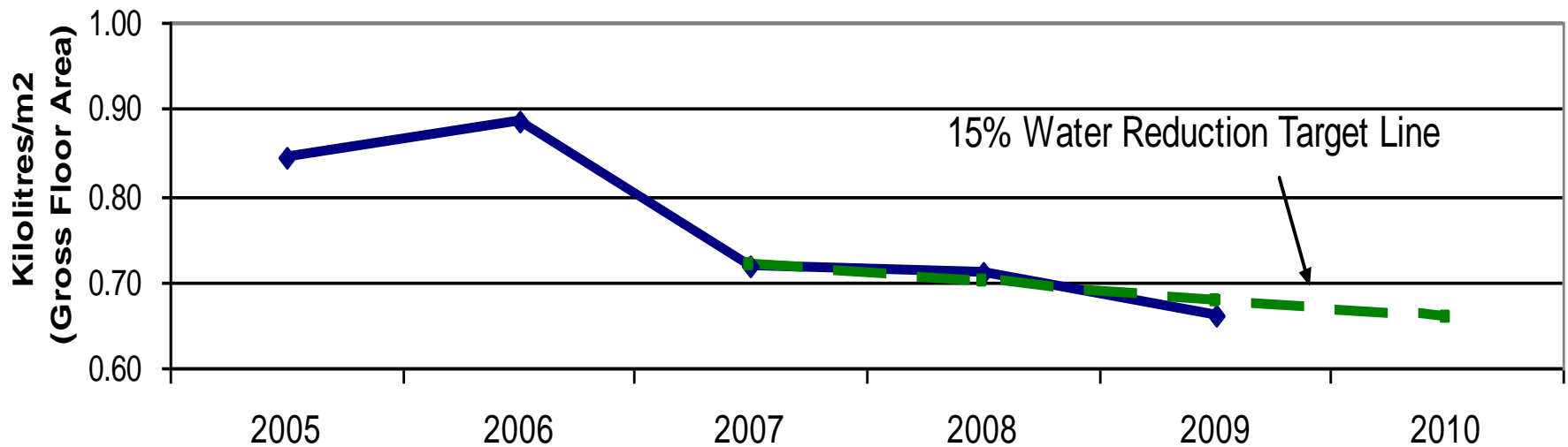


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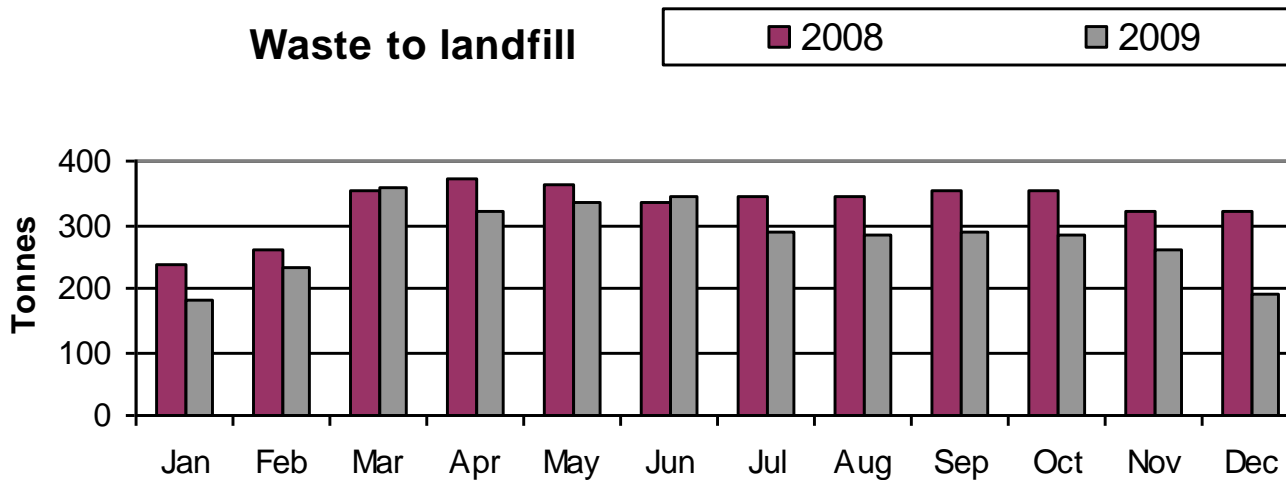
How are we going - Water

Potable Water Used

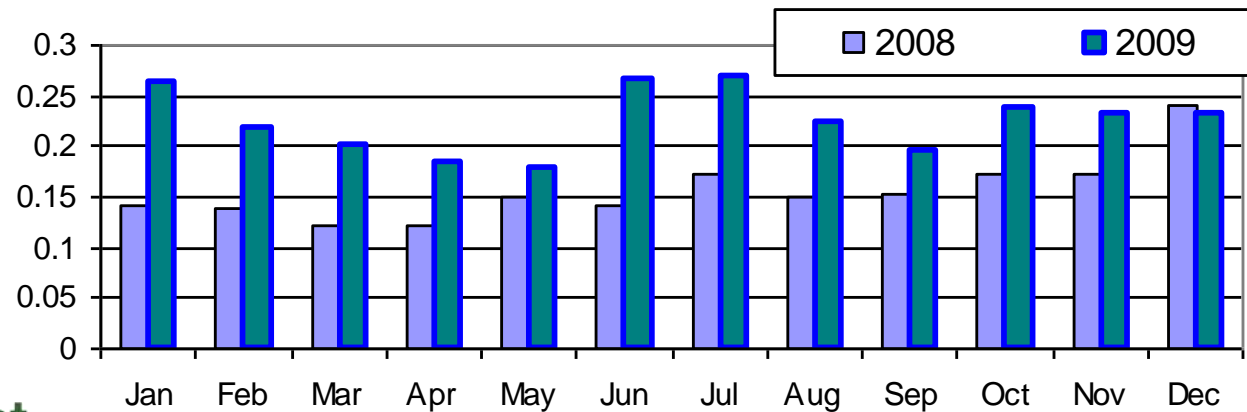


How are we going - Waste

Waste to landfill

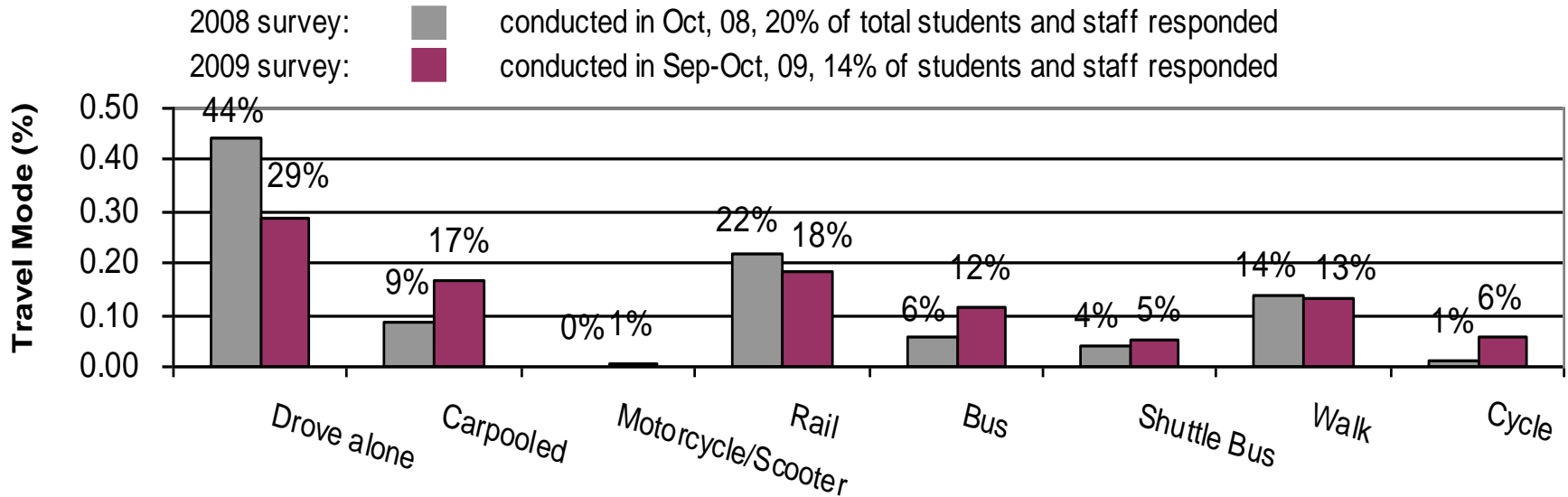


% of Total (General + Recycled) Waste Recycled



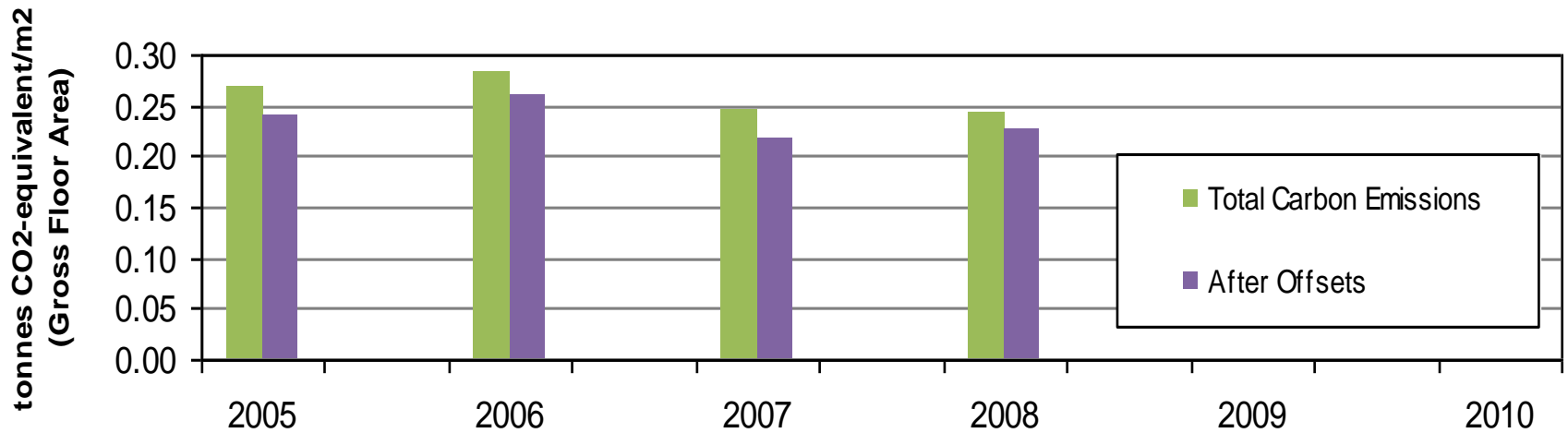
How are we going - Transport

Transport Survey Results



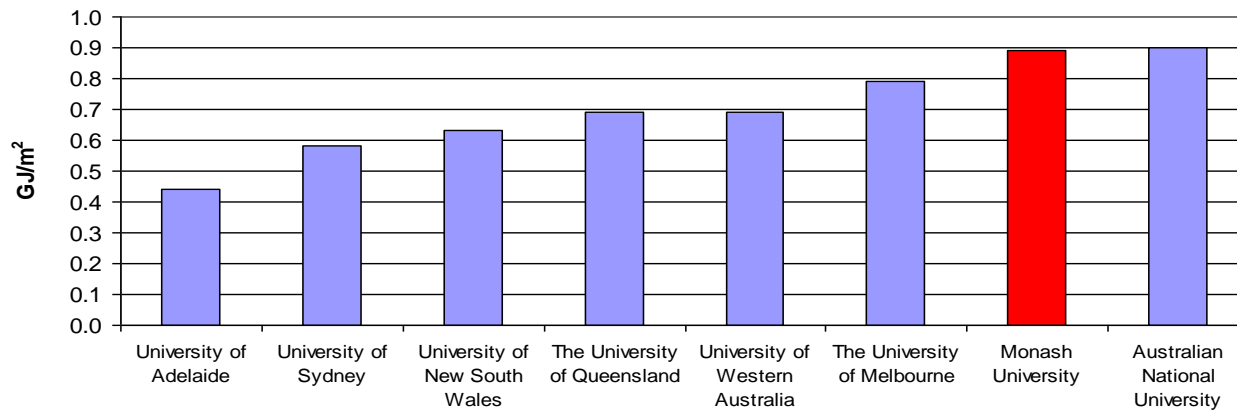
How are we going – Carbon

Carbon Emissions

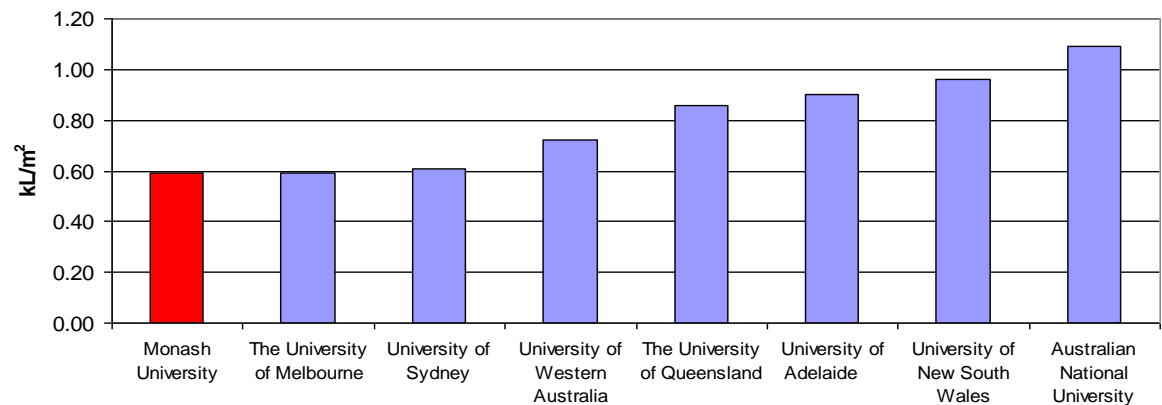


How are we going – G08

Go8 2008 Energy Consumption per Gross Floor Area (m²)

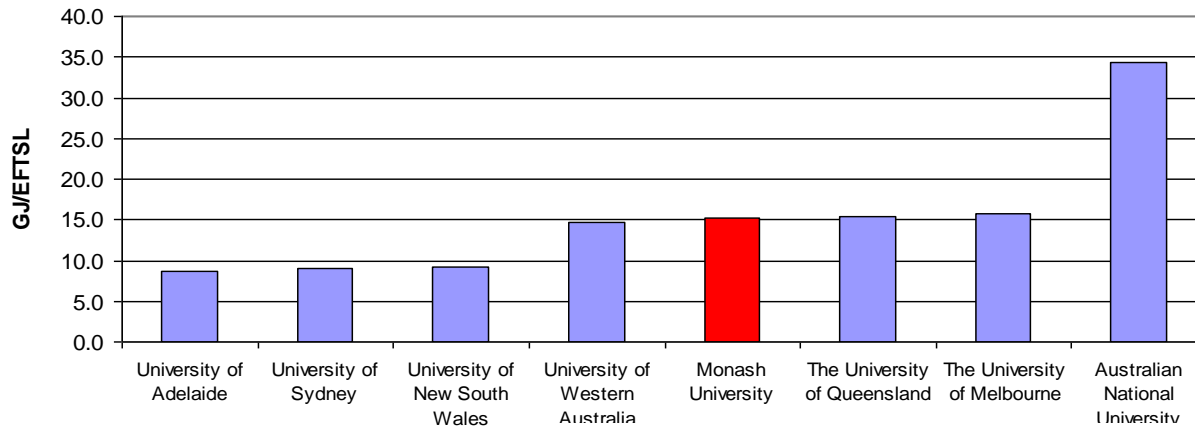


Go8 2008 Water Consumption per Gross Floor Area (m²)

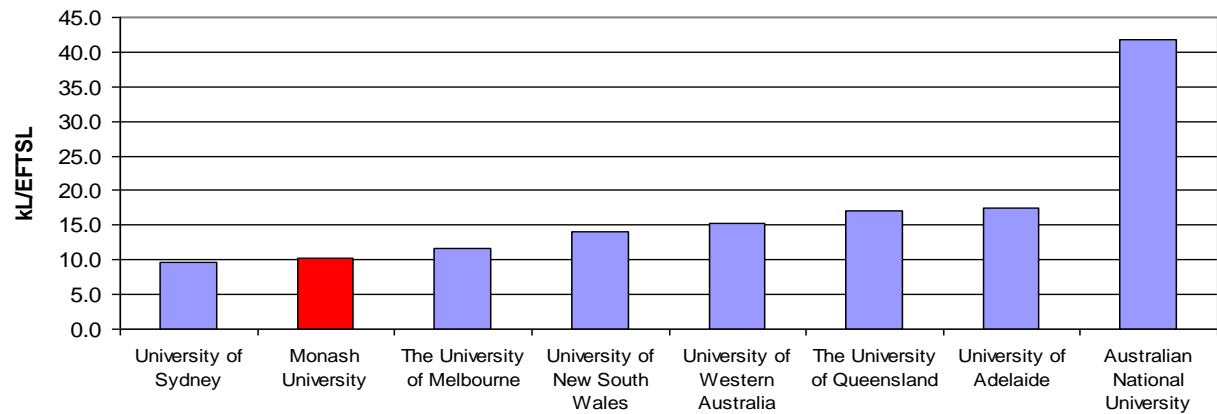


How are we going – G08

Go8 2008 Energy Consumption per EFTSL



Go8 2008 Water Consumption per EFTSL



Staff Attitude Survey

	<u>2007</u>	<u>2009</u>
• Q1 Responsible	66%	76%
• Q2 Aware of Initiatives	-	81%

Becoming a Living laboratory

- **Where can the campus become part of teaching and research?**
 - Biofilter
 - Solar array
 - Marketing and Journalism students
 - Design students – share bike
 - Carbon Accounting course
 - Green step program

For every staff and student who pledge, Monash will commit \$5 towards renewable energy projects on campus



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