

2009 ANU ENVIRONMENTAL MANAGEMENT REPORT

Launching the 2009-2015 environmental management plan

This is the first annual report on a new environmental management plan (EMP) Through this Plan, ANU will provide research and study facilities that meet world's best sustainability practice. The targets and goals of the Plan exceed statutory requirements and industry standards, with the intent that ANU will innovate and lead in the global challenge of sustainability.

Building on a decade of sustainability achievements, the 2009-2015 EMP introduces four areas of strategic environmental work:

- People
- Place
- Performance
- Integration.

Highlights

ANU was selected as one of Australia's 13 Green Precincts, receiving funding of \$1.03M to extend and showcase its environmental achievements.

The campus population grew by 12% since 2006, but energy use went up by only 1%. On a per person basis, ANU met its challenge of reducing energy and greenhouse gas emissions by 10% before 2010, and CO2e emissions were reduced by 23%.

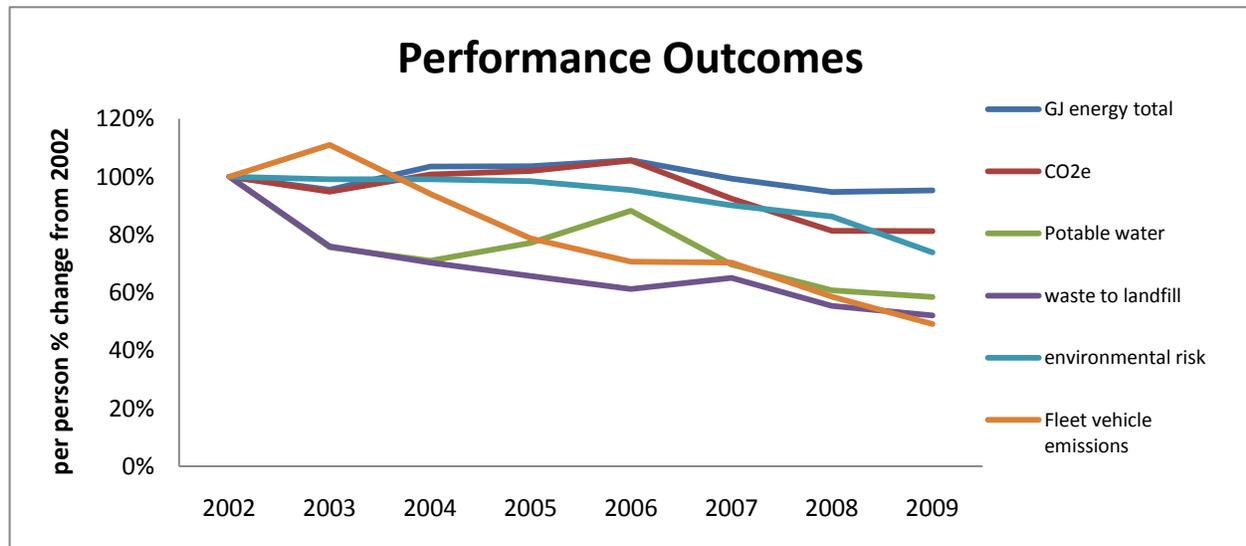
ANU staff and student engagement in sustainability initiatives continued to grow. Compared with 2006 numbers, participation in



Award-winning event – Earth Hour 2009

sustainability events is up by 204%, student time spent on practical sustainability projects has increased 370% and membership of the sustainability learning community by 445%.

- First report completed under the National Greenhouse and Energy Reporting System
- Three awards received for campus sustainability initiatives:
 - International Sustainable Campus Network Award for Impact
 - ANU Media and Outreach Award: Earth Hour - Best community building event
 - ACT Sustainable Cities Award for Sustainable Cities and Gardens: Project Coordination for ANU SHRIMP Building.



People

The 2009-2015 EMP recognises that environmental management starts with people. Four sub-programs combined to engage students at all levels, academic and general staff, and the broader communities in ANU sustainability initiatives.

ANU leadership in engaging its community in environmental management was confirmed in 2009 with its receipt of the inaugural International Sustainable Campus Network Award for Impact.



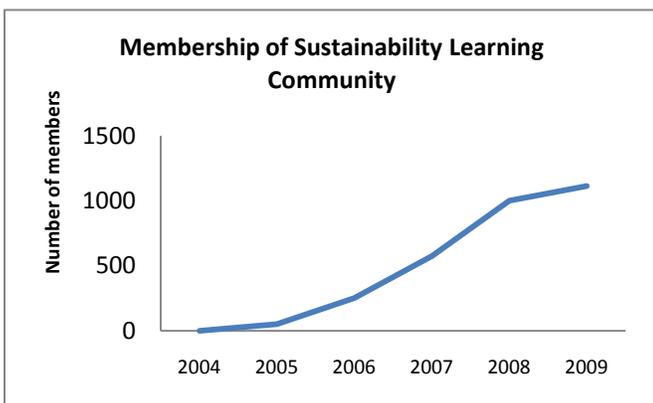
Su Wild-River (3rd from right) receiving the ISCN award for ANU, Lausanne, Switzerland.

Outreach

ANU aims to continually increase awareness, foster engagement and celebrate environmental management successes.

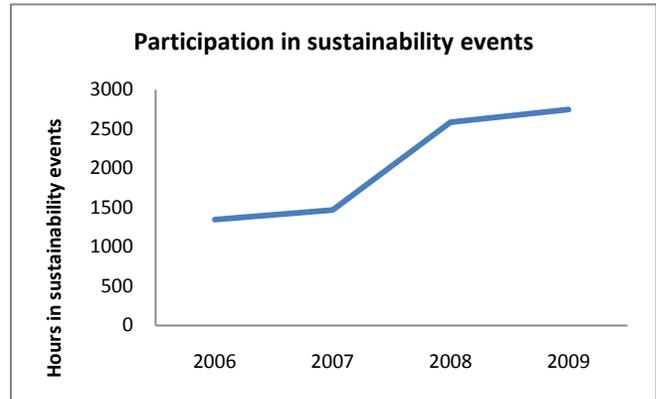
Learning Communities help to connect students from different colleges but shared interests. The Sustainability Learning Community (SLC) is the oldest and biggest at the ANU. In 2009, membership grew to 1113.

The SLC has many activities. It runs an organic garden, in which and the introduction of chickens was a highlight of 2009. The SLC email list is the primary way that students interested in sustainability are informed of sustainability opportunities such as internship, events and social activities.



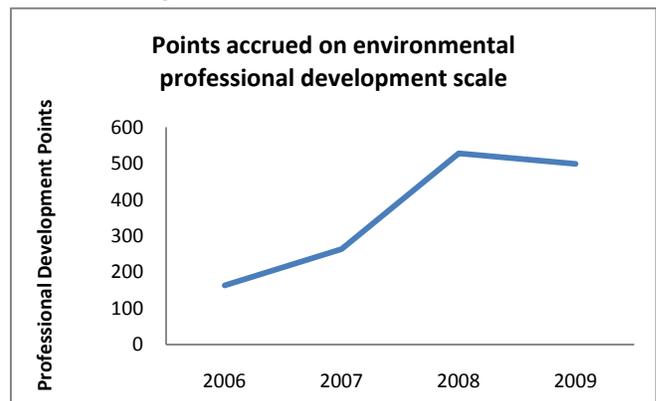
Events

Sustainability events at ANU aim to 'delight not fright' and promote environmental initiatives to people who have not previously been engaged. The biggest events dedicated to sustainability were the award-winning Earth Hour, with 700 participants, and Celebrate Sustainability Day which attracted 670. ANUgreen also hosts sustainability stalls at general events such as O-week. These efforts provided over 2,700 individual points of contact for students and staff to learn about campus sustainability.



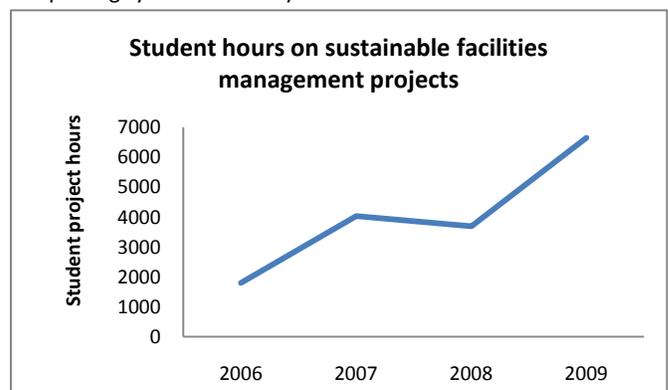
Training

Professionalism of ANU environmental management is increasing with ANUgreen staff publishing results, running courses, giving guest lectures, at a level consistent with the Certified Environmental Practitioner Program.



Projects

Students tackled practical environmental problems. Projects included an ANU carbon inventory, analysis of multicultural sustainability reporting, a PhD project on the ANU HotRot composting system and many more.



Place

The Place program aims to use physical features of the ANU to save energy and water, eliminate the use of potable water for landscape irrigation, reduce waste and achieve other sustainability goals.

Buildings

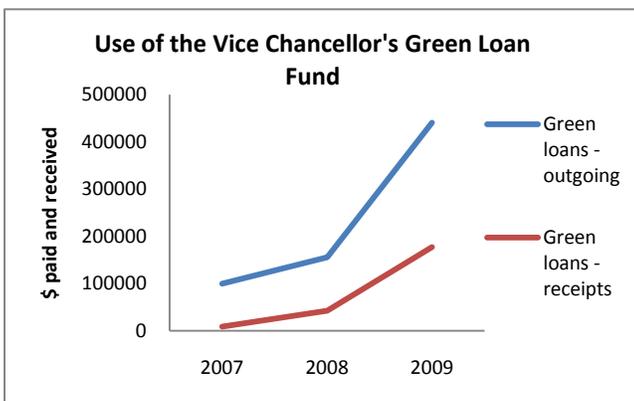
In a time of unprecedented development, ANU aims to ensure that it design and operate green buildings and preserve cultural heritage and biodiversity assets.



Shrimp building – Healthy Cities Award Winning Design

The Green Precincts project will showcase excellence and innovation in facilities management while promoting sustainability leadership in research and teaching. The Precinct encompasses many buildings and three playing fields on the campus. The project will feature a large solar array and digital sign in Union Court. The digital sign will display information on the Precinct’s energy and water use to raise community awareness and promote the project.

The \$3m Vice Chancellors Green Loan Fund was launched in 2007 to provide source funding for infrastructure projects that reduce energy and water usage. Interest-free loans are available to any ANU property and must have a pay-back period of under 10 years. Nearly \$700,000 has been outlaid since the loan’s inception and over \$400,000 has been paid back. Applications for funding are welcome.



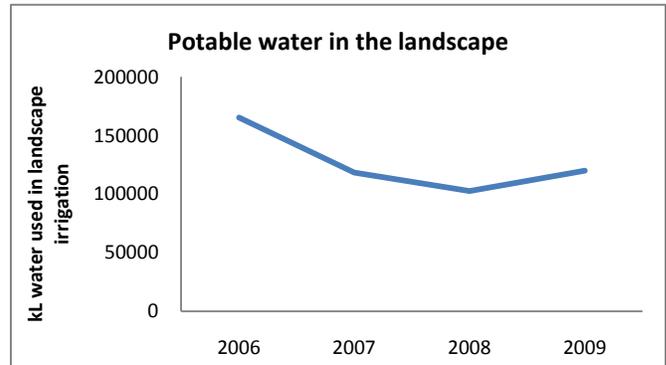
Sustainable landscapes

ANU aims to use its outdoor spaces to achieve environmental outcomes, enhancing ecological function and maintaining species diversity through sustainable resource use and innovative landscape design and management.

In recognition of Australia’s water scarcity, ANU aims to eliminate its use of potable water in landscape irrigation. Green Precinct funding provided a great stimulus for this in 2009.

through \$1.5m funding towards the conversion of Willows Oval to 4th generation artificial turf playing field. Savings of 15ML potable water are expected each year, with a further 5ML to be harvested in an underground water tank.

The Green Precinct Fund has also provided valuable funds for improving the metering of landscape watering.



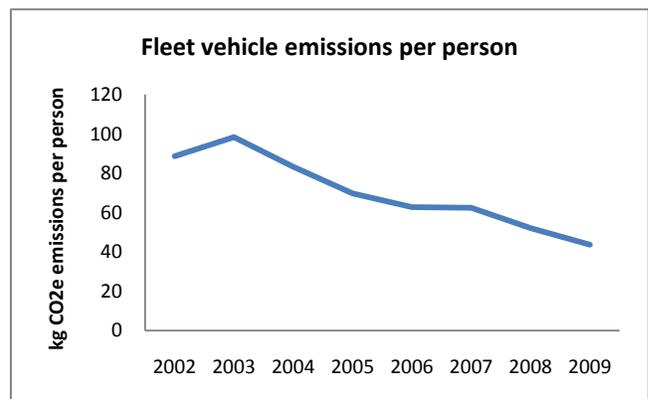
Sustainable transport

ANU aims to minimise the environmental impact of university-related travel.

In 2009 the ANU Vice Chancellor committed to establishing an internal carbon off-set program which will initially focus on an air travel off-sets.

The 2009 result builds two long-term successes:

- continued reduction in fleet vehicle emissions through fewer, more efficient vehicles which are regularly serviced, and
- the Timely Treadlies bicycle fleet available for use by staff and postgraduate students – one of the largest fleets in Australia.



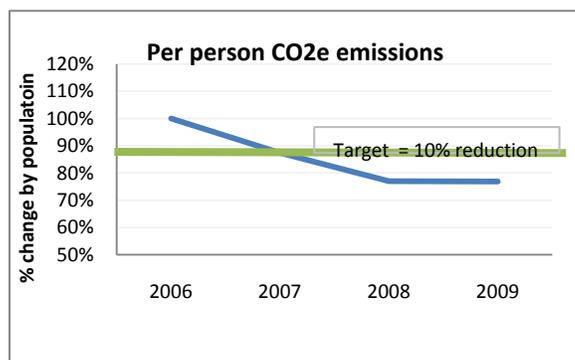
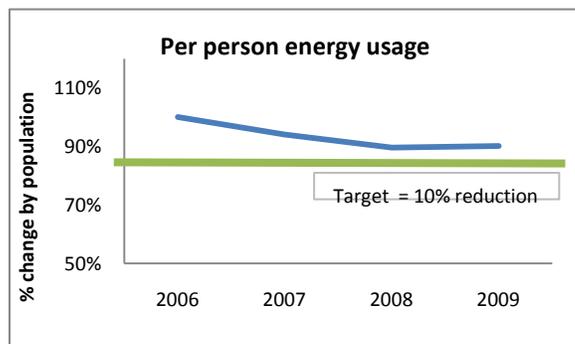
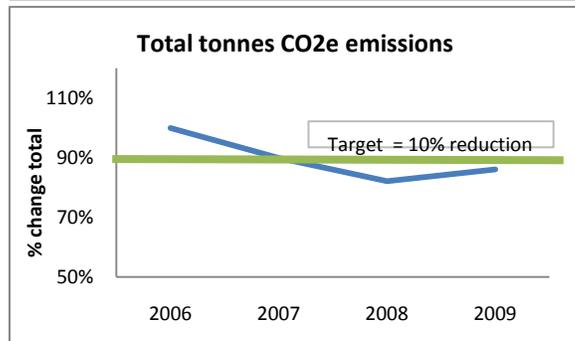
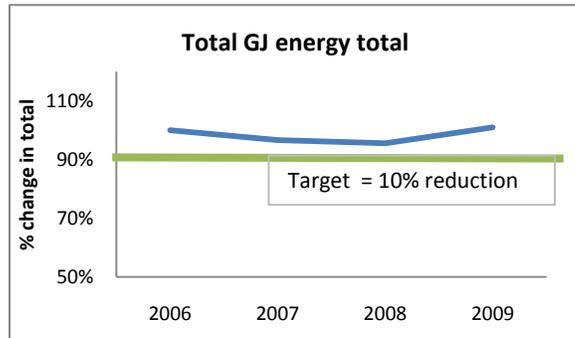
Performance

The performance program delivers on the achievements in other programs with resulting resource efficiency, conversion to low-carbon energy use and waste minimisation.

Energy

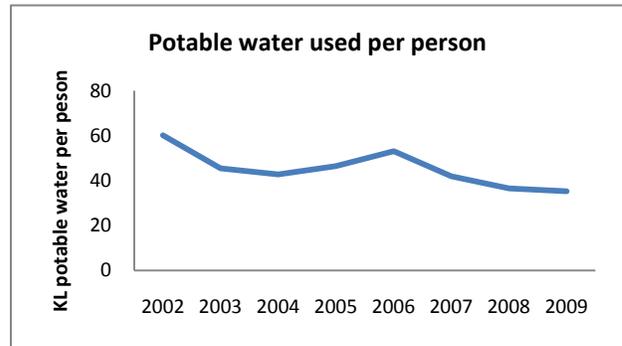
ANU has been working towards a goal of a 10% reduction in energy use and greenhouse gas emissions by 2010. Results have been:

- Total energy use dropped in 2007 and 2008 but was 1% up on the base year by 2009,
- Green energy purchase meant that CO₂e emissions stood at 86% of the base year.
- Energy use per person was at 90% of 2006 by the end of 2009, and
- CO₂e emissions was at 77% of 2006.



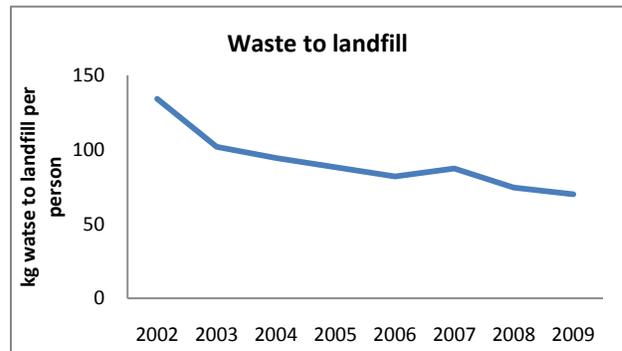
Water

By 2009, ANU had already achieved its goal of reducing potable water use by 30% of 2006 levels. Total water use in 2009 was 66% of 2006 levels. Further improvements will be needed to continue these reductions while the campus population increases.



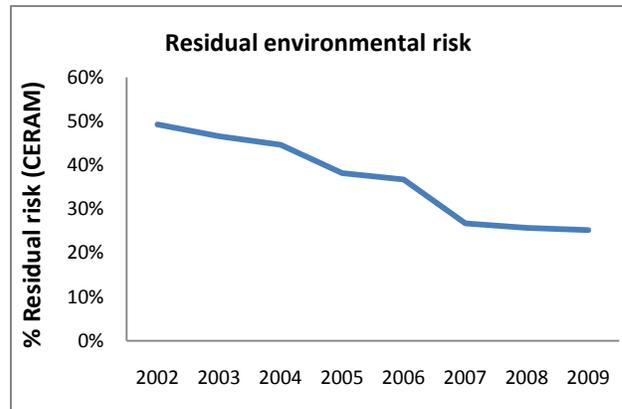
Procurement and waste

Waste reduction continues trending towards the target of 40% reductions on 2006 levels by 2015. By the end of 2009, a 15% had been achieved.



Risk and pollution

Environmental risk management has continued to decrease, and still approaches the target of 20% residual risk.



For more information

Project leaders and contacts for further information

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