



WA Energy Efficiency Awards 2000

And the winners are...

Energy Achiever Award

WINNER – KATRINA O'MARA

ENERGY EDUCATION ON THE NET

Katrina O'Mara has made her mark on the Western Australian energy world. From running energy efficiency workshops to developing web-based education packages and presenting radio science shows, Katrina has shown tireless enthusiasm in spreading the energy efficiency message.

Katrina develops, manages and runs educational programs on energy efficiency, renewable energy and greenhouse gas abatement initiatives for schools, community organisations and professionals involved in ongoing education.

Over 2000 people have taken part in these programs in the past three years.

In 1998 Katrina was awarded a grant to produce fact sheets on renewable energy. Katrina has posted many of these fact sheets on the internet and has organised 25 internet-based activities to promote energy efficiency and renewable energy technologies.

In all of these forums her dedication to motivating other people to think about and act on energy efficiency is inspirational.



Honeywell

The winners and finalists of the WA Energy Efficiency Awards 2000 were announced last night by the Minister for Energy, Colin Barnett, with Amcor Fibre Packaging's Spearwood Mill emerging as the winner of the Perpetual Trophy, awarded to the best of all entrants.

The presentations were made at a special ceremony at the Perth Hyatt Regency Hotel. Category winners were Katrina O'Mara, the University of Western Australia, Amcor Fibre Packaging, Science Alive and the Water Corporation.

The Awards were established to recognise and reward the achievements of industries, businesses, government agencies, community groups and individuals in energy conservation and management as well as the application of renewable energy.

There were a wide variety of entries in the six categories this year.

- Energy Achiever Award
- Planning, Transport and Infrastructure Award
- Commercial Buildings Award
- Industry Award
- Educational and Community Based Programs Award
- Innovation Award

Our sincere appreciation is extended to our major sponsor, **Honeywell Ltd**, for its generous commitment to the Awards. Our thanks to AlintaGas, Western Power Corporation, the

Chamber of Commerce and Industry WA, Radio 6PR and the Alternative Energy Development Board for their continuing support.

The variety and diversity of entries confirms that advances in energy efficiency need not be confined to advanced technology or high cost projects. Many of our entries simply raise awareness of the importance of conserving energy - intangible projects with invaluable results.

If you want to know more about the WA Energy Efficiency Awards, contact Brett Cummings from the Office of Energy

Phone: 9420 5600
Email: bcummings@energy.wa.gov.au



Hon. Colin Barnett MLA
Minister for Energy

"The eighth WA Energy Efficiency Awards have once again demonstrated that energy efficiency is an achievable goal for Western Australian industry, businesses and organisations. I am encouraged by the high quality of the entries and their invaluable contributions to making Western Australia a more business competitive and energy efficient state."

Educational and Community Based Programs Award

WINNER – SCIENCE ALIVE

RENEWABLE ENERGY TRAVELLING SHOW

Travelling to the ends of the earth was almost as far as the distance travelled by Mick Doyle and Linda McKellar-Stewart on their one-year trip around Western Australia promoting renewable energy and energy efficiency to school students.

They drove 40,000 km around regional WA with a specially converted caravan taking their Renewable Energy Travelling Show to 122 country schools and more than 20,000 students.

The program was designed to educate and raise awareness of renewable energy options in upper-primary school students, secondary school students and their teachers.

Fun and interesting presentations designed to explain the basics of renewables and energy efficiency were the backbone of the tour and written back-up materials were provided for teachers.

The Renewable Energy Travelling Show has successfully shown just how much awareness about renewable energy and energy efficiency can be raised by a relatively low-cost educational program.



AlintaGas



FINALIST WESTERN POWER CORPORATION

EDUCATING FOR ENERGY EFFICIENCY

Over the past three years Western Power has run a series of public environmental forums to educate Western Australians on environmental issues relating to electricity use, generation and supply.



FINALIST PINAKARRI COMMUNITY INC

ENERGY EFFICIENT HOUSING A CO-OPERATIVE APPROACH

Many people visit the Pinakarra community to feel the benefits of passive solar design first hand, an experience that reinforces the concept of passive solar design in the pursuit of an energy efficient lifestyle.



FINALIST GARRY BAVERSTOCK

PROMOTING ENERGY EFFICIENT BUILDING DESIGN

A quarter century of designing low energy use homes has made Garry Baverstock one of Western Australia's leading architects in the field of energy efficiency design principles.



FINALIST JOHN HEALEY

PROMOTING EFFICIENT ENERGY SOLUTIONS

Healey Engineering seeks not just to provide clients with appropriate energy services but to foster a change of thinking that encompasses energy efficiency and the larger goal of energy sustainability.

Commercial Buildings Award

WINNER – UNIVERSITY OF WESTERN AUSTRALIA

LONG TERM ENERGY MANAGEMENT

The university's Office of Facilities Management has over past nine years instigated a wide-ranging program of plant upgrades and system rationalisation leading to substantial reductions in energy consumed by campus mechanical services.

Flagging the success of these initiatives is the fact that mechanical services energy consumption is now at the same level as it was when the program started nine years ago. And this despite a 200% increase in air-conditioned floor space, an increase in the use of computers and electronic equipment and an almost 45% increase in student numbers.

A steady stream of new initiatives has gradually converted the university to a more energy efficient regime with all the attendant cost benefits.

The university is continuing its energy management program and hopes to address the use of lighting on campus next.



Western Power

Overall Winner

WINNER – WA ENERGY EFFICIENCY AWARDS 2000 PERPETUAL TROPHY

WINNER – INDUSTRY AWARD

AMCOR FIBRE PACKAGING – SPEARWOOD MILL – TAKING THE STEPS TO ENERGY SUCCESS

At Amcor's Spearwood plant a mill-wide program of energy efficiency measures has shown that reducing energy consumption is a step worth taking.

The significant decrease in energy use has come not from the deployment of major new energy efficient plant, but from focussing on many small initiatives that build into a formidable achievement.

Variable speed drive implementation projects, curbing excessive run times on processes with simple timing devices, improving lighting, and simplifying processes have reaped a rich reward, not just in improving profitability, but in significantly reducing energy consumption.

Many of the techniques used at the Spearwood Mill have application not only in other paper mills, but also in other industrial applications through Western Australia.

And the program is not yet over. An Energy Coordinator has been appointed to further the mill's drive for cutting energy consumption and costs.



Amcor are demonstrating how simple, achievable steps lead to significant reductions in energy use and increased profitability.



Innovation Award

WINNER – WATER CORPORATION

NEW PROCESSES REDUCE ENERGY COSTS

A pair of giant eggs have proved to be golden for the Water Corporation's Woodman Point Wastewater Treatment Plant.

The 38m high concrete eggs are actually wastewater sludge digesters, the first of their kind to be built in the Southern Hemisphere. The anaerobic digesters reduce sludge volume by 50% and each day produce about 15 000m³ of biogas, a mixture of methane and carbon dioxide which is combusted in gas reciprocating engines to generate electricity for both on-site use and sale to Western Power.

Reducing the amount of electricity and natural gas purchased has a significant effect on reducing net greenhouse gas emissions and the company estimates that the annual greenhouse gas savings are in the region of 6 000 tonnes of CO₂.

The new sludge digestion facility is estimated to use only 60% of the power required by conventional wastewater treatment systems.



ALTERNATIVE ENERGY DEVELOPMENT BOARD



FINALIST YELVERTON BROOK LUXURY ECO RETREAT

DESIGNED FOR LUXURIOUS LIVING AND ENERGY EFFICIENCY

Yelverton Brook Luxury Eco Retreat is a fine example of how smaller-scale commercial buildings can be made energy efficient through good design.



FINALIST JONES LANG LASALLE

MANAGING ENERGY CONSUMPTION

Jones Lang LaSalle have proved that energy management contributes not just to reducing energy consumption but also to improving the business bottom line.

Honeywell

AlintaGas

6PR
AM 630
Talking Health



Western Power

ALTERNATIVE ENERGY DEVELOPMENT BOARD



Office of Energy



CCI



GOVERNMENT OF WESTERN AUSTRALIA