

## THE VISION

Not only is there an opportunity to create a world-recognised Centre out of the integration of these five groups, but the building itself, which houses them can be a testament to the goal of sustainable development.

By creating a state-of-the-art Australian eco-technology building, every part of the operation of the new Centre can be a demonstration of innovation for the 21st century.

The building will incorporate innovations in renewable energy and solar design, water efficiency and waste water recycling, non toxic local materials and healthy indoor environments. It will be linked to the display areas of RADG and MUERI and would be the focus for a range of spin-off industries in Murdoch's Enterprise Park.

A preliminary design of the original CASE building has been drawn up and is the kind of concept envisaged.

## THE MECHANISM

The Australian Sustainable Development Centre will be created from the sponsorship of major Australian companies, together with assistance from governments and Murdoch University.

The industry sponsorship is aimed to provide an opportunity for:

- marketing materials, construction methods or technologies that assist with sustainable development,
- on-going education relating to these innovations, and
- evaluating them as an integrated building system i.e. providing an opportunity for the building (and its components) to be an R&D project in itself.

It is hoped to open the new building on 1st January, 2000 as a symbol for the new millennium.

## THE SOLAR CENTURY

This international project from the UK is designed to assist the introduction of solar energy worldwide by enabling innovative buildings that incorporate renewables, to be called 'Solar Century' buildings.

Selected banks and insurance companies as well as utilities and landmark buildings have been granted the title.

Based on the preliminary design the new Centre has been given the right to market itself as a Solar Century Project.

The new building at Murdoch will be the Asia-Pacific regional centre for 'Solar Century'.



## AUSTRALIA'S REGIONS

Inland Australia is the test bed for renewable energy technology and other small scale water and waste systems. The outback and farming regions of Australia will be the first to gain from the new centre.

Public displays and access to information will also be a feature of the new centre.

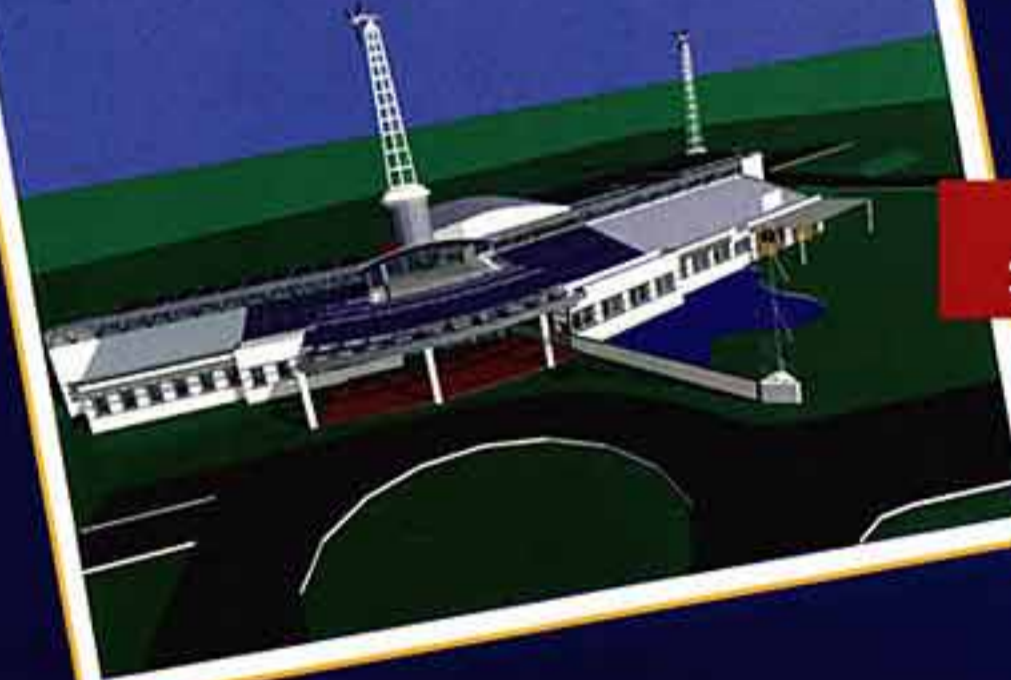
## CONTACTS

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# THE AUSTRALIAN SUSTAINABLE DEVELOPMENT CENTRE



Creating an innovative centre focused on 21st century technology for sustainable development

# A SOLAR CENTURY PROJECT

A state-of-the-art Australian eco-technology building, incorporating

- \* Renewable energy and solar design
- \* Water efficiency and waste water recycling
- \* Non toxic local materials and healthy indoor environments

Participants:

- Australian Cooperative Research Centre for Renewable Energy ACRE
- International Centre for Application of Solar Energy CASE
- Murdoch University Energy Research Institute MUERI
- Remote Area Developments Group RADG
- Institute for Science and Technology Policy ISTP



## THE NEED

Technological innovation at the turn of the new millennium has a double goal:

- to create wealth - particularly for those in the developing world who struggle to meet their basic needs, and
- to create a better environment - from the global issues of greenhouse and oil depletion to local issues of pollution and management of resources.

This is the goal of sustainable development as set by the UN through Agenda 21.

This agenda for the 21st century is being tackled by governments, industries and communities, and it works out at every scale including that for individual buildings.

## THE MARKET

All parts of the world are a market for sustainable development but the most critical markets are where the world's economy is growing the fastest - for the greatest opportunity is available there for innovation.

The Asia-Pacific region is Australia's market and the opportunities to provide sustainable development services abound.



However for Australia to meet that market requires partnerships to be developed between researchers, industry and government in all the new eco-technologies that are emerging. The Australian Sustainable Development Centre will be the centrepiece for a Technology Park (Enterprise Park) designed as a business incubator to capture part of the \$400 billion global market for environmental and energy technology.

## THE OPPORTUNITY

Five Western Australian groups have become recognised nationally and internationally. These groups now have an opportunity to be brought together into one building.

### AUSTRALIAN COOPERATIVE RESEARCH CENTRE FOR RENEWABLE ENERGY, ACRE

ACRE includes university research groups, industries and utilities across Australia. ACRE is committed to greenhouse gas abatement through innovative technology research, development and demonstration. It's mission is leadership in sustainable energy solutions in remote areas and cities, both in Australia and overseas. It is committed to the development of industry, the creation of jobs and enhancement of exports.

### CENTRE FOR APPLICATION OF SOLAR ENERGY, CASE

Established through UNIDO and the Federal and Western Australian Governments, CASE promotes the use of renewable energy systems in developing countries, particularly in rural areas. CASE sources project finance, manages system installation and trains local people.

### REMOTE AREA DEVELOPMENTS GROUP, RADG

Part of the School of Environmental Science, RADG has been operating since 1987 to create appropriate technologies for remote communities with water supply, solid waste, wastewater treatment, permaculture and other eco-technologies. They have an Environmental Technology Display Centre on the Murdoch Campus Enterprise Park.

### MURDOCH UNIVERSITY ENERGY RESEARCH INSTITUTE, MUERI

MUERI provides innovative and integrated solutions to energy needs in the Australian outback and overseas. They have an Energy Display Centre on the Murdoch campus.

### INSTITUTE FOR SCIENCE AND TECHNOLOGY POLICY, ISTP

The ISTP works on the policy frameworks necessary for the implementation of eco-technologies and sustainable development in diverse areas including renewable energy, transport, city planning, ecological public health, water management and landcare.

By bringing together the expertise of these groups into one building, (over 100 people would be involved) a new synergy is created.

The opportunities for innovation are increased and the "one-stop shop" means that an internationally recognised focal point will be created for those looking to find sustainable development solutions.

