

# Renewable Energy and Environmentally Sustainable Design Case Studies

## Koala Interpretive Centre - ESD

**Site:** Phillip Island, Victoria

**Dates:**

- Design Phase: June 2004

**Client:**

Phillip Island Nature Parks

**Project Goals:**

- Recommend passive design techniques and innovative technologies that demonstrate the principles of good design, energy efficiency and renewable technology.
- Identify best practice methods for water and energy use at the Koala Centre.

**Project Features:**

The proposed new visitor and environmental education centre at the Koala Conservation Reserve on Phillip Island offers an outstanding opportunity to build an iconic structure that is both innovative in design and efficient in operation. The plan is to create an economically viable centre that is attractive, comfortable, interesting and functional.

The key planned ESD features are:

- Solar chimneys at each end of the building
- A roof integrated solar air heating system
- Rainwater harvesting system
- Building integrated photovoltaics
- Maximising thermal mass
- Maximising insulation
- Building heat modulation system
- Using landscaping to moderate the local micro-climate

**Project Team:**

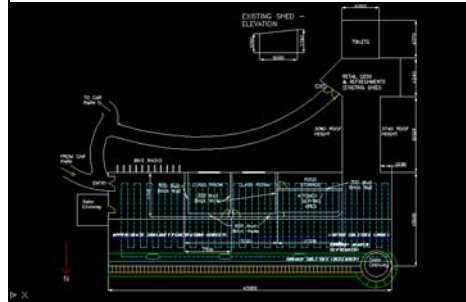
- Stephen Ingrouille, General Manager, Going Solar
- Lachlan Bateman, Project Engineer, Going Solar

**Further Information:**

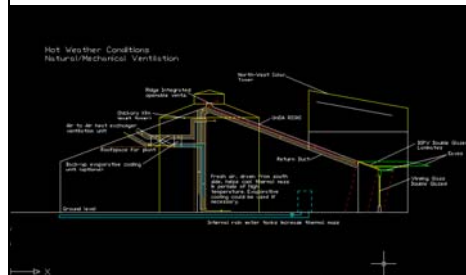
- [steve@goingsolar.com.au](mailto:steve@goingsolar.com.au)
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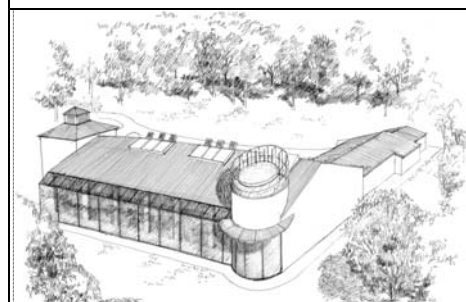
Displays in the existing building



Proposed floor plan



Proposed elevation



Proposed perspective



Building site