"This amazing building will challenge us to walk our talk with sustainability..."

Katrina Shields

What you can do while you are here:

- Be Energy Smart: Have no more lights, fans and equipment on than is needed. Switch off when you leave the room
- Make use of cross breezes or the Cardiff Air circulation system
- Be Waste Wise: Use the recycling bins provided for paper, aluminium, glass, and plastics 
- Avoid takeaway food and drink containers where possible
- Take your organic waste home or use the compost bins
- Keep paper use to a minimum and use both sides
- Use the herbal tea garden for refreshing drinks
- Build Eco Culture: Raise sustainability issues in class discussions and encourage your fellow users to be energy smart and waste wise

Organise car pooling with class mates, ride a bike and use our bike racks or catch the bus instead of driving. See Northern Rivers Online Car Pool www.**nrcarpool.org** & www.**byroncollege.org.au/transport**

Enrol in one of our Sustainability or Green Skills courses to find out more!

Building Sustainability
Byron Community College Mullumbimby Campus

Designer: **Mark Halford**
Environmental Consultant: **Dave Howard**
Project Manager/College Director: **Richard Vinycomb**
Solar: **Northern Rivers Renewable Energy**
Builders: **Ontrac Constructions**
Sustainability Coordinator: **Katrina Shields**

Procuring more sustainable products
is an ongoing process.
Living more sustainably requires ongoing
learning and increasing awareness.
We aim to constantly improve with your help.

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This building project was funded by the **Federal Department of Education Employment and Workplace Relations**, with contributions from Byron Shire Council, Northern Rivers Renewable Energy and Community Learning Innovations Centre.

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Building Sustainability

"This is no ordinary public building...we were able to do something special here."

Richard Vinycomb

Climate change and energy efficiency are vital issues of our time

Byron Region Community College
has a commitment to lowering our carbon footprint and to encouraging more sustainable practices in our staff, students and the community

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The main campus building is a retrofit of an old electricity depot and has been designed to be both energy efficient and innovative.
The design was based on **passive solar principles** to maximise natural light, fresh air flow, summer coolness and winter warmth.

There are **180 solar panels** which generate **30 kW** of power to feed back into the grid. You can see the 6 x 5 Kw inverters in the small exhibition space and a display of power generated on the screen. This saves on coal fired electricity and generates income for the complex.

Solar hot water system

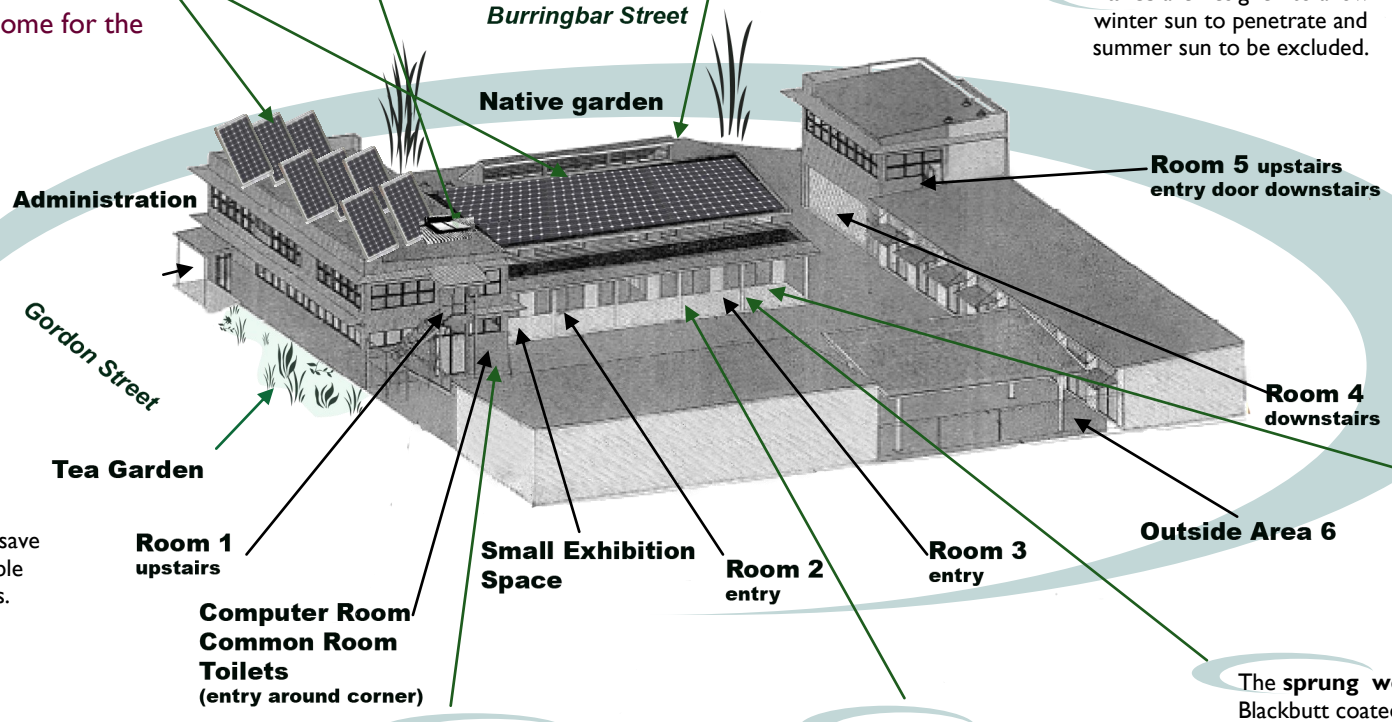
Passive solar design includes **north facing windows** to catch the winter sun, **high louvers** to let out hot air, a **north facing veranda** to access winter sun and **thermal mass** in the tiles to store winter warmth.

Many **windows are tinted** to reduce heat transfer. The roof and walls are **highly insulated** and **light coloured roofing** to reflect heat. Saving on power for heating and cooling means less green house gas emissions.

Many rooms have **LED down lights** and/or **compact fluorescents**, others have **T5 fluoros with reflector plates**.

Eaves are designed to allow winter sun to penetrate and summer sun to be excluded.

Some appliances have been chosen for their **high energy star rating** such as the 5 star rated LED screen in the foyer and the induction stove in the kitchen. ★★★★★☆



The landscaping includes a local **native garden** and **herbal tea garden** in Gordon Street. Herbs and shrubs provide refreshing drinks that cut down on packaging and food miles.

Facilities for **web conferencing** save on travel. The buildings are available for community and cultural events.

Movable walls allow for flexible use and there are **acoustic tiles** to cut down on noise transfer and create good acoustics.

Lights and **fans** in the toilets are connected to **motion sensors** which auto switch off after you leave.

Cardiff air system in rooms 2 & 3 draws in cool air from the south side and circulates the air through the rooms.

The **sprung wooden floor** is local plantation Blackbutt coated in low VOC finish. The **carpeting is 100% wool** with rubber underlay which are both renewable resources and do not contain the chemicals present in many carpets.

The College endeavours to improve our environmental behaviours and policies. All rooms have recycling bins, paper reuse containers, mugs and tea pots for brewing tea from the garden. We are committed to using recycled photocopy paper. Green cleaning products are used on the building.

There are **dual flush toilets**, **waterless urinals**, low flow taps and a **water tank** for water efficiency.

*To find out more, look for the environmental '**e features**' signs throughout the building.*

e Floor Covering

The 100% wool carpet with rubber underlay uses two renewable resources and creates less chemical out-gassing - it does not contain the toxic chemicals that most carpets do.