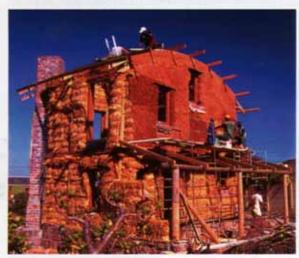
"Water demand will exceed supply in Gauteng by 2015, and nationally by 2030. Adjusting our habits to reduce,

reuse and
recycle is
paramount to
our survival."
Gerry Joubert

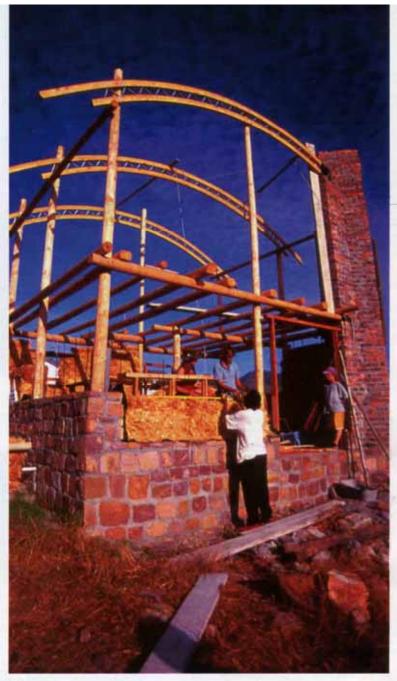




GOING SOLAR

"Solar water heaters are more costly than conventional geysers, but the additional cost can be offset by future reductions in your water heating bills," says Marlett Balmer, partner in PDC, a research and consulting firm specializing in development, energy and education. "Nationally, the potential for solar water heaters to influence the domestic demand profile is significant, which means saving on large amounts of electricity, and reducing pollution and greenhouse gas emissions."

TIP: be sure to invest in the correct size system based on your hot water requirements. For advice and a list of approved suppliers, contact the Sustainable Energy Society (011) 789 1384, or mail info@sessa.org.za.



The photographs on this page show a holiday house in Scarborough which features a pole framework with stone walls and straw bale infill. Design: Eco Design Architects

5 THINGS YOU CAN DO RIGHT NOW

- 1. Choose water-saving shower heads, taps and twin-flush toilets.
- Replace thirsty exotic plants with hardy and drought-resistant shrubs and trees.
- 3. Invest in a tank to harvest rain water for the garden or pool.
- 4. Use mulch and compost to help keep soil damp.
- Think about the products you use to wash your dishes, your clothes and yourself – and use greener, biodegradable options where possible.

THE BENEFITS OF GOING GREEN

Unlike coal, oil and gas, solar power is a renewable form of energy that won't run out. Once the initial cost of 'green' technologies such as solar water heaters has been met, the energy is free, with substantial savings on electricity. It's also non-polluting, producing no greenhouse gas emissions. "Consumers are starting to look at the fixed-cost nature of the benefits offered by sustainable buildings, such as cooling, heating and lighting," says Glynn Morris, MD of Agama Energy. "These benefits are available for the duration of the building's life at a cost which is reliable, fixed and predictable. 'Green' buildings can be viewed as an insurance policy against the risks of fluctuating and increasingly expensive services."

And not only are cleaner, cheaper sources of energy readily available, but people can choose materials and finishes that substantially reduce toxicity in the home. "Sick-building syndrome is very real," says Gerry Joubert. "It arises from buildings that are poorly ventilated and fitted with products containing volatile organic chemicals. These are found in synthetic paints, finishes and building materials and emit high levels of polluting gases."

Andy Horn, an award-winning architect and founder of Eco Design Architects, is at the forefront of green buildings in South Africa. Author





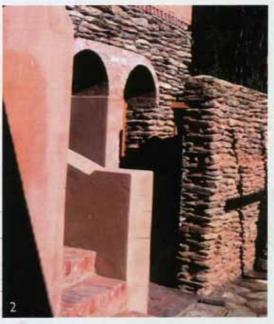
HOUSE OF STRAW

This 'green' house (above) in the town of Teslaarsdal was constructed from natural stone, straw bales and locally harvested timber. The poles were treated on site with non-toxic substances, and the windows and doors are a mixture of recycled Oregon pine and second-hand finds. Water is heated by a solar water panel and for back-up on cloudy days, waste heat is circulated from the fireplace chimney to the geyser via a heat exchanger. Rainwater tanks conserve water, and used bath water nourishes fruit trees via a grey-water recycler. Design: Eco Design Architects

- Architect Andy Horn in one of the clay brickwork domes, which creates the entrance space to the Mud Gallery in Barrydale.
- For the Mud Gallery, Eco Design Architects used slate stone found on site, with a lime-stabilised earthen mortar and earth lime plaster.

Photographs Eco Design Architects (021) 462 1614, www.ecodesignarchitects.co.za





ECO-FRIENDLY MATERIALS

- ☐ Timber grown from sustainable forests is a healthy alternative to chipboard and MDF (both of which contain formaldehyde glue). The use of local timber over tropical hardwoods helps counteract deforestation and supports local industries.
- □ Look for organic paints and sealers which allow buildings to 'breathe'. For retailers of non-toxic wood and stone sealers phone (021) 556 1238 or visit www.envirotouch.com.
- ☐ Consider bamboo as a sustainable option for flooring and furniture, try Panda Bamboo (0861 114 971), or natural fibre carpets like sisal, hemp and coir.
- Recycling building materials such as bricks, timber, doors and window frames further reduces cost and waste.
- Ask your supplier for a Safety Data Sheet on all your building products.