
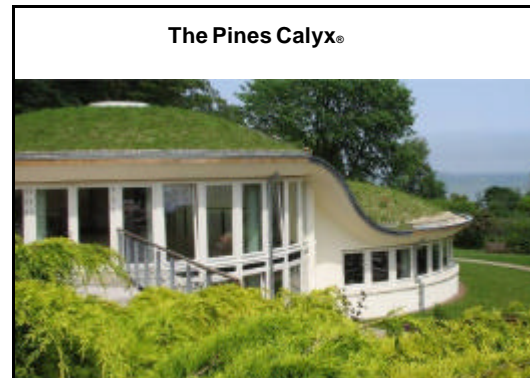



**The Pines Calyx®**

- ❖ Why it was built
- ❖ How it was built
- ❖ It's role as a 'Sustainability Hub'




Green Architecture Day  
Brighton 2008

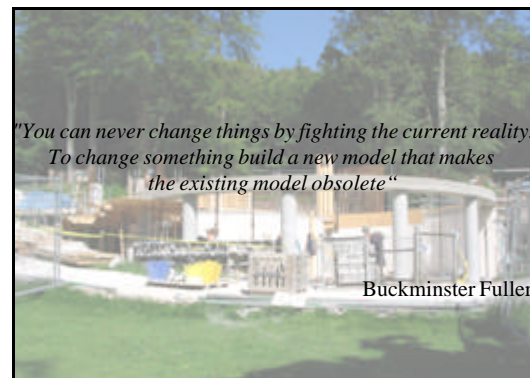
**"Real-Health"**

"A healthy mind in a healthy body  
in a healthy community, in a healthy environment"




**Real-Health: Core Values**

- Community
- Collaboration
- 'Cradle to Cradle' Sustainability

**The Pines Calyx®** ❖ Why it was built:

They need some new 'models'



## Climate Change

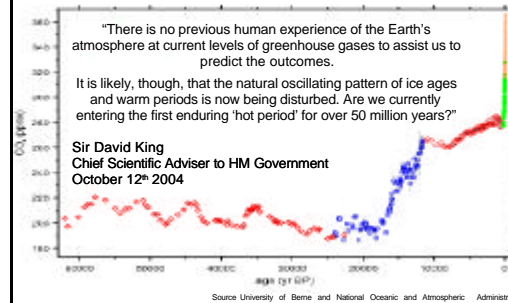
"The investment that takes place in the next 10-20 years will have a profound effect on the climate in the second half of this century and in the next. Prompt and strong action (re. cutting greenhouse gas emissions) is clearly warranted"

Sir Nicholas Stern, Economist

"The science of Climate Change has never been clearer. We have a window of only 10-15 years to avoid catastrophic tipping points. These would have serious consequences for our economic growth prospects, the safety of our people and the supply of resources, most notably energy. So we must act quickly."

Tony Blair, Prime Minister

## Carbon dioxide levels over the last 60,000 years

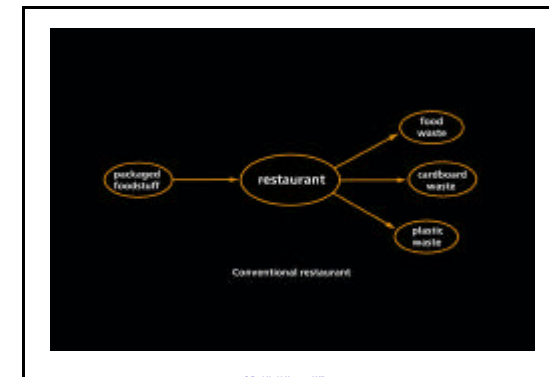
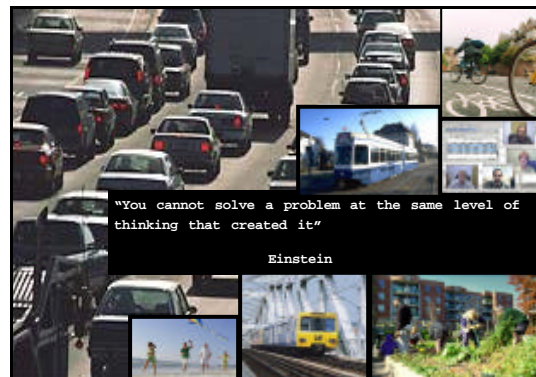


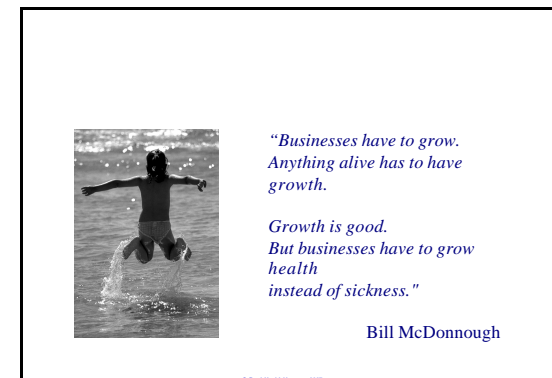
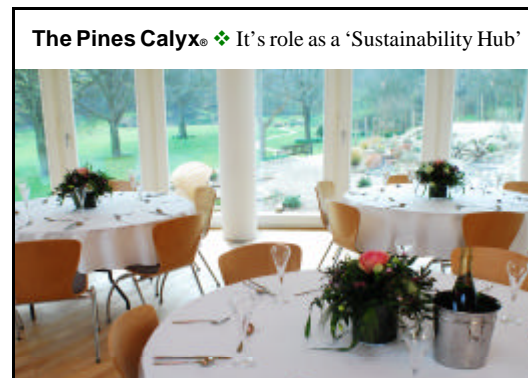
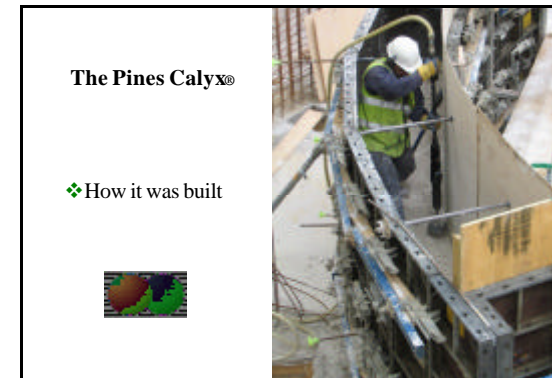
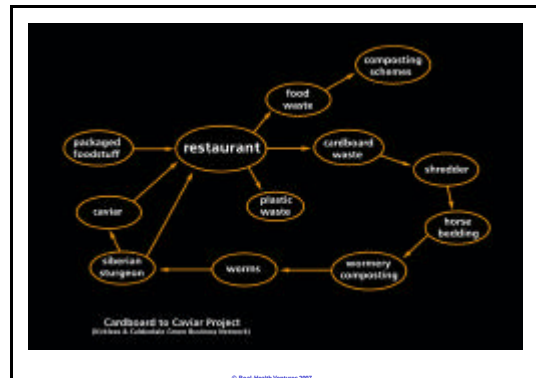
**'One Planet Living'?**  
Mankind has been living beyond the Planet's resources since the early 1970s

This has resulted in a growing number of systemic problems including:

- **Water Supply:** >30% world's population facing water famine by 2020
- **Food Supply:** Topsoils are being lost at unsustainable levels. Global crop yields are now falling for first time in 50 yrs whilst the food required over next 50 yrs is equivalent to last 10,000 years
- **Population:** Expanding by 250,000 per DAY!
- **Waste:** Throw away consumer culture leading to toxic waste mountains & increasing economic and environmental costs.
- **Oil:** By 2012 production will be meeting only 75% of consumer demand
- **Biodiversity:** Extinction rates are c.1000 x higher than 100 years ago & complete ecosystems are now breaking down

NB. These issues are part of the status quo with or without climate change. However climate change acts as a multiplier to some of these problems





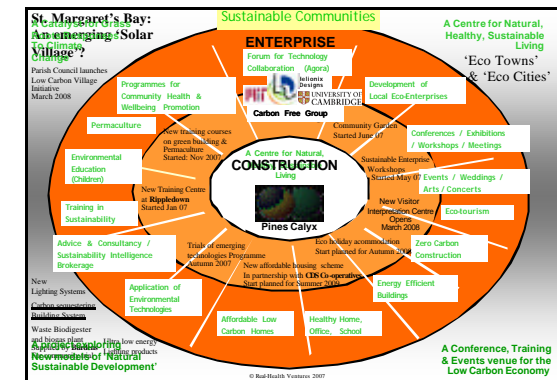
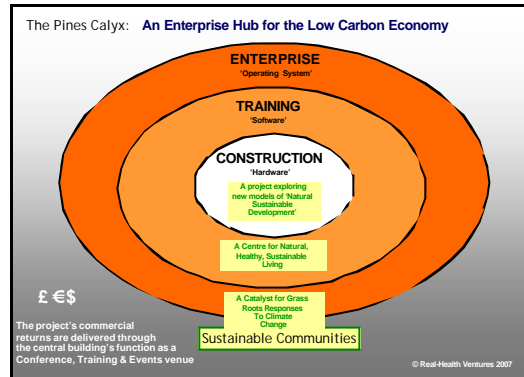
....businesses have to grow health instead of sickness."

### ❖ It's role as a 'Sustainability Hub'

The Pines Calyx is being developed as a Centre of Excellence for Real-Health™, a real live demonstration of Real-Health practice and principles - a place where people can learn how to meet the challenges we all face in living healthier more sustainable lives.



© Real-Health Ventures 2007



# Join In !



## The Pines Calyx Project

**Concept:** Real-Health Ventures Ltd

[www.real-healthventures.eu](http://www.real-healthventures.eu)

**Design:** Helionix Designs

[www.helionixdesigns.co.uk](http://www.helionixdesigns.co.uk)

**Ownership:** The Bay Trust

[www.baytrust.org.uk](http://www.baytrust.org.uk)

**For Further Information:**

[www.pinescalyxproject.co.uk](http://www.pinescalyxproject.co.uk) &

[www.pinescalyx.co.uk](http://www.pinescalyx.co.uk)

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## Carbon Free Group

The sustainability consortium dedicated to making zero carbon living both practical and affordable today.

It's members' skills and expertise can deliver a project from an outline idea to a completed new building or renovation, using the best talents, technologies and designs

### Members Include:

Ecobrium Solutions - Exploration Architects - Frontier - Green Roof Consultancy  
Green Carbon / Oakwood Builders - Hanson Partnership - Helionix Designs  
Intelligent Sustainable Solutions - Newform Energy - Parity Projects  
Passive House Solutions - Real-Health Ventures - SC2 - Sector 39  
Vision Innovations

[www.carbonfreegroup.co.uk](http://www.carbonfreegroup.co.uk)