

'Green The Greenhouse' Funding Appeal

Help set a world precedent for greenhouse construction and development



Today

THE PROBLEM

- Unsustainable food/crop production in energy-wasteful greenhouses, using non-renewable energy
- Lack of integration of greenhouses with associated buildings for improved energy management
- Lack of leadership and investment for low-carbon-footprint greenhouses
- Confusion about what is best practice for companies and individuals

The Living Rainforest visitor centre today ...



greenhouses 1200m²; associated buildings 400m²

Tomorrow

SEVEN STEPS TO GREENING OUR GREENHOUSE

- Improve glazing design to reduce energy demand by 50% compared to a conventional greenhouse
- Integrate the greenhouse with associated buildings for improved energy management
- Utilise the greenhouse to capture solar energy
- Store excess heat underground in a Vertical Soil Heat Exchanger (VSHE)
- Heat the integrated buildings during colder periods using the stored energy
- Use renewable biomass energy from local sources for back-up/peak demand
- Use the Green Greenhouse to inspire and educate greenhouse growers and the public

... and our plans for tomorrow



greenhouses 1400m²; associated buildings 600m²

THE CHALLENGE CURRENTLY FACING THE LIVING RAINFOREST

- To complete the transformation of The Living Rainforest centre into a working demonstration of carbon-neutral design and practice
- To raise the remaining 25% matched funding required to complete the second phase of construction of the EC Integrated Greenhouse Project (Life 05/ENV/UK/000998)
- To promote carbon-neutral greenhouse horticulture
- To lead the way in educating the public about greener greenhouse design

Our funding target

To raise £900,000 matched funding to complete construction of the £3.5m state-of-the-art 'Green Greenhouse' building prototype



**INTEGRATED
GREENHOUSE
PROJECT**

The Living Rainforest
Hampstead Norreys
Berkshire RG18 0TN

Tel +44 (0) 1635 202444

Fax +44 (0) 1635 202440

Email enquiries@livingrainforest.org

www.livingrainforest.org

Registered Charity No. 1085057