Eco-towns, Garden Cities & One Planet Communities - policy and practice, opportunities and challenges

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BioRegional is a social enterprise which invents & delivers more sustainable ways to live & work
London, Oxford, Brighton and sister organisations in China, South Africa, Mexico, Greece, Australia, North America

BioRegional solutions for sustainability
one planet living

A world where we can live happy, healthy lives within our fair share of the world's resources, leaving space for wildlife and wilderness.
BedZED likes:

“Nice community spirit, non-isolating”

“Social side is spectacularly good”
## Ten principles of one planet living

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<td>Sustainable transport</td>
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<td>Culture and community</td>
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<td>Equity and local economy</td>
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<td>Health and happiness</td>
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*BioRegional solutions for sustainability*
One Planet Living process

1. Gather information

2. One Planet Action Plan

3. Implement and report progress annually

Zero carbon

Performance against targets
- Reduce energy use in line with CO2 reduction target of 40% by 2020
- New stores zero carbon by 2020
- Zero carbon across existing estate by 2025 in line with 40% target

Key activities and achievements in 2010
- Invested £43 million in lighting upgrades for stores
- Absolute reduction in CO2 from store energy use of 9% compared to the 2006 baseline
- Played a leading role in the provision of support to government to develop the Green Deal following the successful 2010 plan with the London Borough of Ealing

Plans for 2011
- Trial measures to reduce heat loss for example building headers onto existing stores and thereby reducing gas consumption
- Further investment in lighting upgrades with 1 mil £ already approved to speed up lighting upgrades in 2 stores including installing energy efficient lighting and new lighting controls
- Develop concept for zero carbon store and identify sustainable offshore renewable energy supply that could be secured to meet any residual demand
Policy - Zero carbon homes and eco-towns

“Within 10 years, every new home will be a zero-carbon home and we will be the first country ever to make this commitment”
6th December 2006

“New eco-towns could build low carbon design into the fabric of the community, not just into individual houses”
7th March 2007
What makes an eco-town?

A report from BioRegional and CABE inspired by the eco-towns challenge panel

BioRegional
solutions for sustainability
Eco-towns planning policy statement

Eco-towns should

• make a significant contribution to two government policies:
  – 240,000 new homes by 2016
  – 80% reduction in CO2 by 2050

• be exemplar projects which enable residents to live within environmental limits

Eco-towns Planning Policy Statement, July 2009
1. Bicester’s strategic position
Bicester eco-town 400 home exemplar
Bicester eco-town
Bicester Eco Town goes further than most

One of the largest developments to be built to code for sustainable home level 5 and zero carbon

The largest residential solar array in the country

It is a true zero carbon scheme

Creation of one job for each home

A unique governance structure

Commitment to use local business

Significant reduction in embodied carbon within the build

One Planet Community
Politics! Garden cities
One Planet Living

One Planet Communities

One Planet Regions

One Planet Companies

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Masdar City – Abu Dhabi
Sonoma Mountain Village, California

Developer, Codding Enterprises
Approximately 2000 homes
‘5 minute living’

Housing
Work
Groceries
Restaurants
Services
Sports, gardens, gym
Shops, theater, hotel
One Planet Living to the United Nations

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One planet living - a practical solution

One planet living, a practical solution to which we are living, is one in which we are living in harmony with the natural laws of the planet - how we live in the world - having left sufficient space for wildlife and wilderness. A BioRegional network has developed a single approach to sustainability based on ten principles, which enables others to implement one planet living.

An International Network

The one planet living network is growing rapidly, with projects in Australia, Canada, China, France, Greece, Italy, Mexico, Morocco, South Africa, UK, Germany, and others in Europe. An online toolkit, available since 2001, has been used by over 300,000 people in over 100 countries around the world.