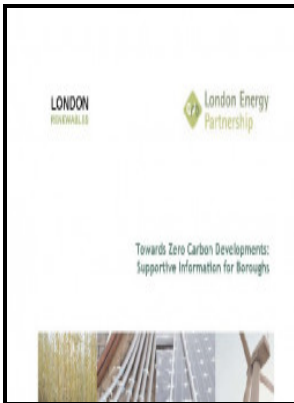


Beddington Zero (Fossil) Energy Development - construction materials report : toolkit for carbon neutral developments

BioRegional - Calaméo



Description: -

- Sustainable architecture -- England -- London.
Beddington Zero (Fossil) Energy Development. Beddington Zero (Fossil) Energy Development - construction materials report : toolkit for carbon neutral developments
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Notes: Title from cover.

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BedZED

They also have a car-share scheme. It is such a simple thing with good designers to detail an airtight fabric and, despite costing slightly more, specify high levels of insulation and materials with a high thermal mass. The basic orientation of the site allows the residential units to face south to take advantage of solar gain whilst work units face north to gain from increased natural daylight.

Analysis of Sustainable Energy Systems in Ecovillages: A Review of Progress in BedZED and Masdar City

Received 20 January 2015; accepted 6 February 2015; published 9 February 2015
ABSTRACT This paper explores sustainable energy systems in ecovillages based on the concept of the Zero Energy Building. High grade reclaimed materials such as structural steel are not off-the-shelf products and there needs to be a willingness to work at securing a reliable supply of materials and extra time in designing connection details that can accommodate a range of sizes.

BedZED

BD Reviews: Sustainability supplement to Building Design.

BedZED

When problems started occurring due to tar forming on the equipment, maintenance costs soared and eventually the firm supplying maintenance went bankrupt and the plant had to be shut down. To combat this, the work units face north meaning they benefit little from solar gain. BedZED was designed by the architect Bill Dunster who was looking for a more sustainable way of building housing in urban areas.

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For this review I am going to examine how the designers of BedZED have used various technologies and design principles in their pursuit of making BedZED a truly carbon neutral development. BedZED is within 5 minutes walk of the Hackbridge station which services trains from Victoria station or Kings Cross Thameslink. Moreover, geothermal heat has been tested as an optional use in cold weather seasons.

Energy Efficient Design Principles Applied to BedZED Example

BedZED has been designed with this as a key principle to help reduce its energy consumption. BedZED encourages public transport, cycling and walking and has limited parking space.

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Many construction projects are now focused on becoming low or zero energy buildings; this complicated project requires careful analysis, design, implementation, and evaluation. While not fully completed yet, the early buildings constructed here are plentiful with sustainable ideas.

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It is easy for designers to design facilities and services that make it easy to reduce waste and landfill, recycle waste and reduce car use. If carbon neutral developments are rolled out on a significant scale, the build costs will be greatly reduced through bulk buying of specialist components and build up of onsite skills.

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