

Journey Towards Passive House

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What Citu Do



Shaftesbury House





Greenhouse, Leeds



Greenhouse, Leeds

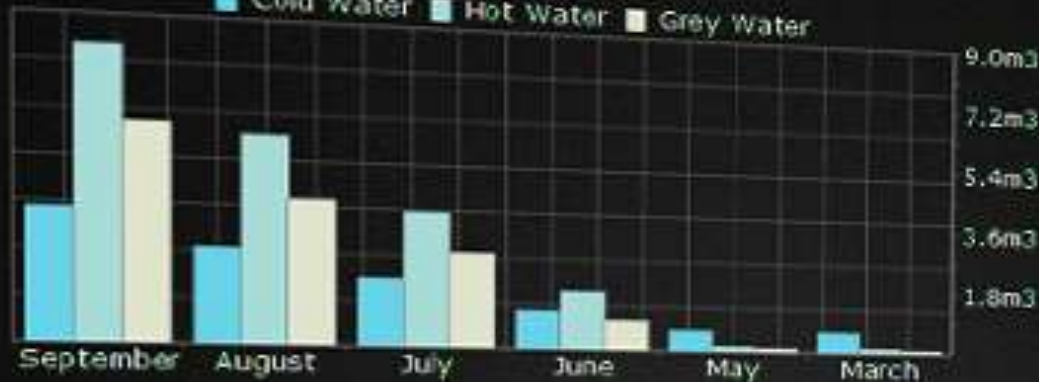


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Water Usage

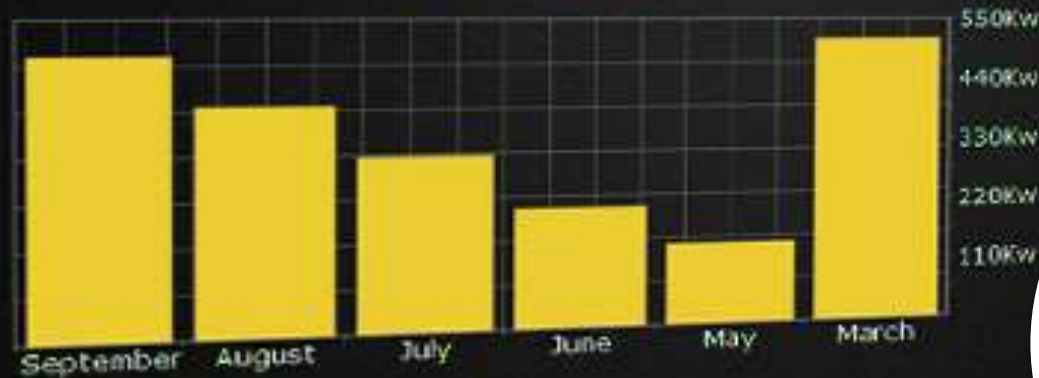
■ Cold Water ■ Hot Water ■ Grey Water

Consumption



Electricity Usage

Consumption



Daily

Weekly

Monthly

Summary Apartment: 213

Fresh Water

Unit Type: Litres L

Average Unit Price: £ 0.01

Unit Consumption: 3.79

Total: £ 0.02

Hot Water

Unit Type: Litres L

Average Unit Price: £ 0.01

Unit Consumption: 3.79

Total: £ 0.02

Grey Water

Informed
Occupants

Little Kelham Case Study



Little Kelham 153 Homes

Mix of
refurb &
new
build





Why do we want to
build Passive?

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New Build Family Homes

75%

25%

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Inspiration
...?



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Innovation

...

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1990's Nokia



Customers are here...



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A photograph of a row of three-story period houses, likely in a city like Bath. The houses are built of light-colored stone or brick and feature numerous multi-paned windows. Some windows have white frames, while others have darker frames. The houses have dark roofs with several chimneys. In the foreground, there is a black metal fence and a street with a traffic light. A large white circle is overlaid on the left side of the image, containing the text "Leaky period homes".

Leaky period homes

What do
people
want?

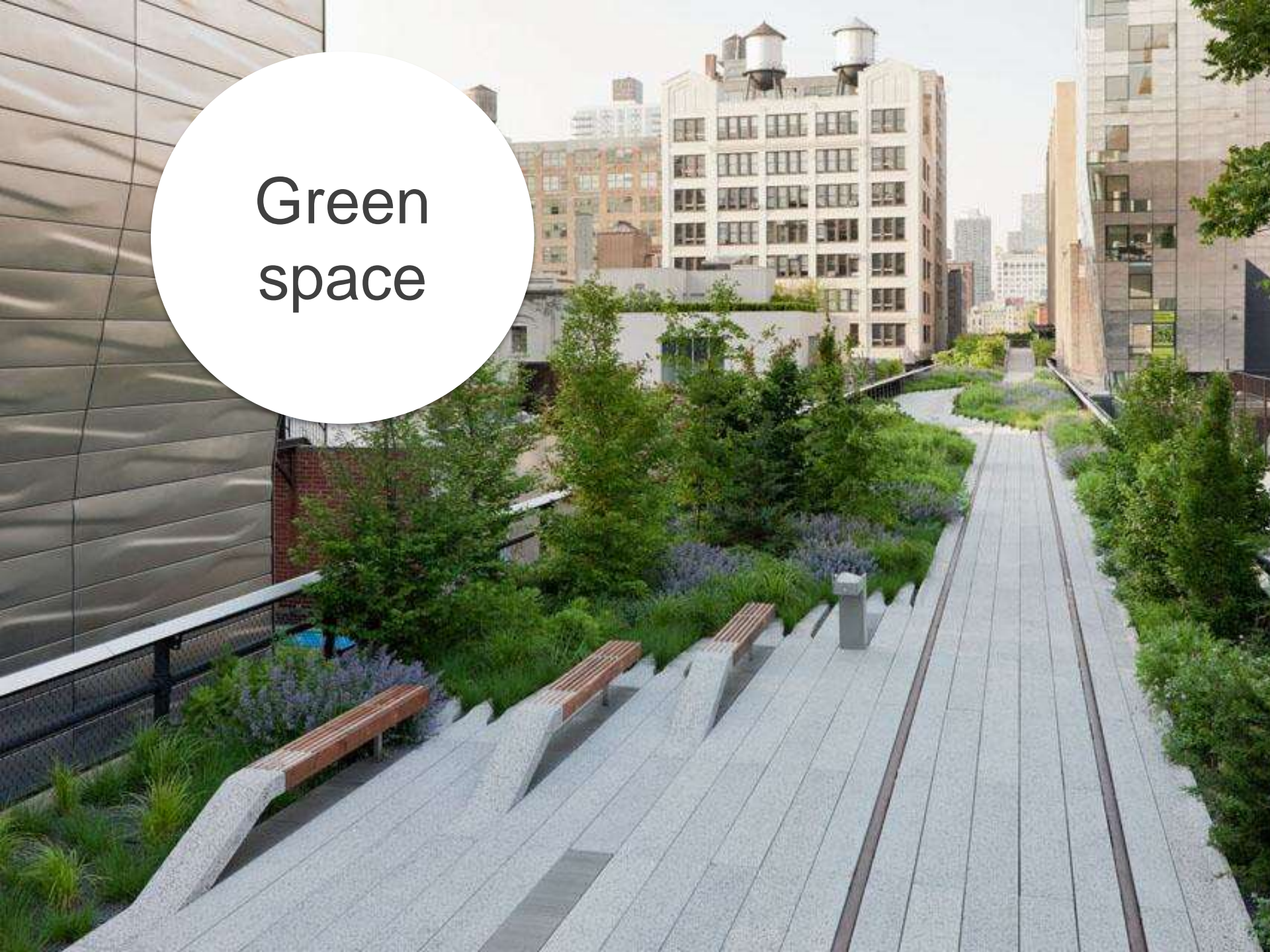
It depends
on who
they are

Yes,
but...



Light &
space

Green
space



A photograph of a row of modern, colorful residential buildings (yellow, red, and white) with gabled roofs. A shared sidewalk runs alongside the buildings, with several bicycles parked in a designated area. A person is walking on the sidewalk, and a dark SUV is parked further down the street. The scene is set on a sunny day with a clear blue sky.

Shared surfaces

Public
space





Inspired
Design






Certainty of
cost in use


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Not reliable


Energy Efficiency Rating		
	Current	Potential
<i>Very energy efficient - lower running costs</i>		
(92-100) A		
(81-91) B		
(69-80) C		
(55-68) D	67	68
(39-54) E		
(21-38) F		
(1-20) G		
<i>Not energy efficient - higher running costs</i>		
England & Wales		EU Directive 2002/91/EC 

Passive
answers
design gap



The background of the image is a collage of architectural drawings. At the top, there's a site plan showing a residential development with streets like 'New Road' and 'New Parking Bay'. Below this, a colorful 3D perspective sketch of a modern building with orange, blue, and grey facades is shown. A red pen with an orange cap is positioned over this sketch. In the foreground, a black ruler with green markings is placed diagonally across the image. Below the ruler, there's another architectural sketch of a long, low building with a dark roof. To the right, another site plan is visible, featuring a curved road and a building labeled 'basin 6'. The text 'fossdyke' is also visible on this plan. A white circular overlay on the right side of the image contains the text 'What have we learned?'.

What
have we
learned?



Onsite workshop

Steep
learning
curve

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A photograph of a construction site featuring extensive scaffolding around a building under construction. The scaffolding is made of metal poles and wooden planks, with some sections covered in blue safety netting. In the foreground, there is a gravel-covered ground with a few construction materials, including a large white rectangular panel leaning against the scaffolding. A small metal container with the letters 'B M' is visible on the left. A large white circle is overlaid on the left side of the image, containing the text 'More R&D needed'.

More
R&D
needed

A photograph of a modern building with a dark grey brick facade and large, dark-framed windows. A white circular overlay is positioned in the lower-left foreground, containing the word 'Design'. The building is set against a blue sky with scattered white clouds. Scaffolding is visible on the right side of the building.

Design



Passionate
Team
Essential

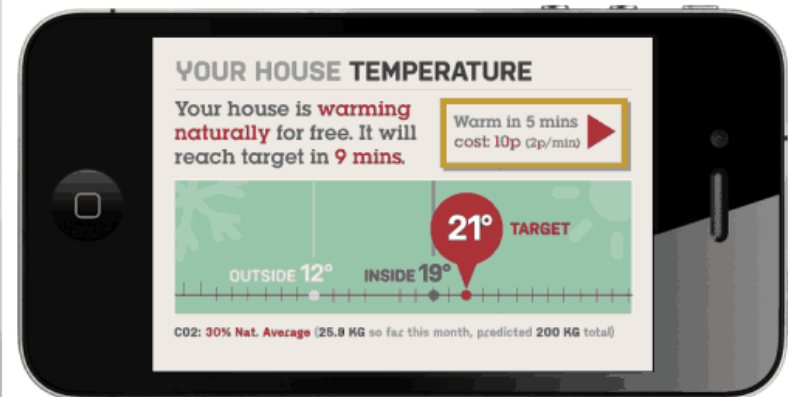




Invent
what
doesn't
exist

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Our energy monitoring app



Measuring
is key




A photograph of a white and orange cat standing on a stone-paved surface, looking towards a large group of pigeons. The pigeons are of various breeds, including Rock Pouter and Rock Dove, and are gathered in the background. The scene is set outdoors on a paved area.

Disrupt the
market

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Innovate &
challenge
convention

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A photograph of the Sydney Opera House, a world-famous building with a unique, sail-like design. The building is white and stands on a waterfront, with its reflection clearly visible in the water below. The sky is a clear, bright blue. In the top right corner, there is a white circular graphic containing text.

Take risks to
leave a
positive

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Thanks.

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