

Climate change responses in public space

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Climate change responses



Introduction

Effect of Climate change are clear

Temperature increase

Rainfall unpredictable

Raising sea levels

Adaption & mitigation for urban public realm a priority

2 relevant pieces of work being undertaken by Cabe



Climate change responses



CABE -Commission for architecture and the built environment.

Set up in 1999

CABE champions well-designed buildings and public space

Run public campaigns

Provide expert, practical advice

We work directly with planners, designers, clients and architects, offering them guidance on projects

Influence government policy

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Climate change responses



- **Cabe Space projects**

Manual for Sustainable Cities:

How sustainable urban design & management can help cities adapt & mitigate the effects of climate change

- *Adapting public space to climate change*



Climate change responses



Manual for Sustainable cities:

'How sustainable urban design & management can help cities adapt & mitigate the effects of climate change'

Website manual/ toolkit developed by CABI and Urban Practitioners working with the English core cities.

It addresses an acknowledged gap in thinking about cities as spatially connected, complex systems.

Adaptation and mitigation are its key drivers.

Plugs into existing research

Topics covered



Energy	Waste	Water	Transport	Buildings	Green Infrastructure	Public Space
Reducing energy demand	Making space for waste management	Dealing with vulnerability to extreme weather e.g. flash floods	Optimising conditions for public transport, walking and cycling	Sustainable new build opportunities	Moderating the Urban Heat Island	The role of public spaces in reducing carbon emissions
Developing a sustainable energy portfolio	Managing construction materials and waste	Sustainable water use strategies	Reducing car usage and improving the carbon efficiency of vehicles	Sustainable refurbishment of existing stock	Helping wildlife adapt for change	The need for public spaces to adapt and be comfortable
	The role of waste to energy processes	Strategies for protecting water networks		Managing buildings	Integrating high quality green space into the urban form	How can public space respond to changing patterns of usage under future climate scenarios
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Around
the Block

- **Adapting public space for climate change**

10 case studies

Briefing paper

6 case stories

Policy and legislative review



10 case studies / themes



Flooding

- River Quaggy, Lewisham, London
- River Irwell Flood Control Scheme and Salford Strategic Flood Risk Assessment, Salford
- Milton Keynes Flood plain forest
- Cleveleys coastal protection

•A holistic approach to developing sustainable neighbourhoods

- Augustenborg, Malmö, Sweden
- Olympic Park, Sydney, Australia
- CitySpace Plan, Chicago

•Approaches to sustainable urban drainage

- 12th Avenue Green Street, Portland, USA
- Bristol Business Park, North Bristol

•Combating the urban heat island effect

- Chiswick Park, London

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River Quaggy flood alleviation scheme – Lewisham & Greenwich



Manage flood risk to 600 homes & businesses and 2,500 local people

Background of flooding

1990 scheme proposed to channel the entire river in concrete

Local opposition ensued – 1998 current scheme commissioned by the Environment agency

2 upstream storage areas – naturalised rivers – increased amenity and biodiversity

Good community engagement

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River Quaggy



Milton Keynes Flood Plain Forest



Many lowland rivers would be flood plain if not controlled

Milton Keynes Parks Trust is in year one of a small scale flood plain forest project.

Purpose to create more amenity and biodiversity value

Scheme proposed in 1994 – 12 years to get all consents

Opposition by community and planners

Unique to UK

Not specifically driven by climate change

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Milton Keynes Flood Plain Forest



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The two schemes demonstrated not intentionally developed for climate change

Both schemes would not have been successful if it had not been for community engagement processes

Both schemes took considerable effort to pass planning and community engagement

Thank You
Sue Morgan