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Sponge City Water Resource
Management

A great deal of effort in water

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resource management is directed at optimising the use of water and in minimising the environmental impact of water use on the city environment. The term "Sponge City" refers to the idea of a city where its urban underground water system operates like a sponge to absorb, store, leak and purify rainwater, and release it for reuse when necessary.

Sponge City: Water Resource
Management (English and French

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Yet heavy rainfall can become an absolute disaster - even in modern cities - if rainwater is not drained out in time. A great deal of effort in water resource management is directed at optimising the use of

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Water and in minimising the environmental impact of water use on the city environment. The term "Sponge City" refers to the idea of a city where its urban underground water system operates like a sponge to absorb, store, leak and purify rainwater, and release it for reuse when necessary.

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Sponge city is a concept originated from the use of 'sponge' to describe the absorbing function of cities. Population researchers in Australia were the first to use the sponge metaphor in expressing the adsorption of polulation from cities. In recent years, the expression is more often used to describe the regulation and storage capacity of cities or field.

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A great deal of effort in water resource management is directed at optimising the use of water and in minimising the environmental impact of water use on the city environment. The term "Sponge City" refers to the idea of a city where its urban underground water system operates like a sponge to absorb, store, leak and purify rainwater, and release it for reuse when necessary.

Sponge City, Water Resource Management by Sophie Barbaux ...
A Sponge City is a specially designed city that absorbs, cleans and uses rainwater in a natural and ecologically friendly way thus reducing runoffs. The city aims at resolving water problems rather

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than creating and exaggerating it by retaining and using most of its rainfall. Like a sponge, a city needs to absorb, filter, store and purify the rainwater.

Sponge City: Back to Basics for
Water Management

Get this from a library! Sponge city : water resource management = Ville perm é able : l'eau, ressource urbaine. [ICI Consultants,;] -- Featuring projects carried out in France which demonstrate the concept of "Sponge City".

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management = ville perm é able :
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ICI Consultants ; foreword by
Sophie Barboux. Also Titled. Ville
perm é able Sponge city. French.
Other Authors. Barboux, Sophie,
(writer of foreword.) ICI
Consultants, (editors.) Published.
Mulgrave, Victoria : The Images
Publishing Group Pty Ltd, 2015.

Sponge city : water resource
management = ville perm é able ...
Unlike traditional cities, where
impermeable roadways, buildings,
and sidewalks interfere with the
natural water cycle, sponge cities
mimic and support the natural
water cycle. They use nature-
based solutions, such as rain
gardens, green roofs, constructed

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Wetlands, and permeable pavement, to naturally capture, slow down, and filter stormwater.

Sponge City: Solutions for China ' s
Thirsty and Flooded Cities

Sponge City: Water Resource

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Sponge City: Water Resource

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A sponge city is a new urban construction model for flood management, strengthening ecological infrastructure and drainage systems. It can alleviate the city's waterlogging, water

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resources shortage, and urban heat island effect and improve the ecological environment and biodiversity by absorb and capture rain water and utilize it to reduce floods. Rain water harvested can be repurposed for irrigation and for home use. It is a form of a sustainable drainage system on an urban scale. China has be

Sponge city - Wikipedia

In 2013, in order to mitigate increasingly severe urban water-related problems, China set forth a new strategy for integrated urban water management (IUWM) called the “ Sponge City ” . This is the first holistic IUWM strategy implemented in a developing country that is still undergoing

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rapid urbanization, and holds promise for application in other developing countries.

A new strategy for integrated urban water management in ... The Sponge City concept aims to (i) adopt and develop LID concepts which improve effective control of urban peak runoff, and to temporarily store, recycle and purify stormwater; (ii) to upgrade the traditional drainage systems using more flood-resilient infrastructure (e.g. construction of underground water-storage tanks and tunnels) and to increase current drainage protection standards using LID systems to offset peak discharges and reduce excess stormwater; and (iii) to

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“ Sponge City ” in China—A breakthrough of planning and ...
China Pushes ‘ Sponge City ’ Plan With First Rainwater Rights Sale
By Matthew Walsh and Zhou Tailai
China has recorded its first ever commercial transfer of the rights to use captured rainwater, marking an important step in the country ’ s efforts to create water-storing “ sponge cities. ”

China Pushes ‘ Sponge City ’ Plan With First Rainwater ...

A great deal of effort in water resource management is directed at optimising the use of water and in minimising the environmental

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impact of water use on the city environment. The term "Sponge City" refers to the idea of a city where its urban underground water system operates like a sponge to absorb, store, leak and purify rainwater, and release it for reuse when necessary.

Sponge City: Water Resource
Management : ICI Consultants ...

The 34 hectares urban storm water park in the city of Harbin in northern China is an example of successful Sponge City intervention. The storm water park provides multiple ecosystems services: it collects, cleanses and stores storm water and lets it infiltrate it into the aquifers. At the same time it protects and recovers

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the native natural habitats and provides an aesthetically appealing public space for recreational use.

Sponge Cities: What is it all about?

- World Future Council

25% of the city ' s area is in a water protection zone and has an ecological and recreational value; water supply consists of 100 % groundwater and requires water basin management with artificially recharge from the river Havel.

Berlin - International Water
Association

The city is gearing up for an uncertain future ahead, and has established a flood control program called the “ Shenzhen

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Water Strategy.” The four basic measures of the Strategy are: the protection of water resources, the recovery of water in the environment, the guarantee of water safety, and the enhancement of visible water.

Shenzhen - International Water Association

“ A sponge city follows the philosophy of innovation: that a city can solve water problems instead of creating them. In the long run, sponge cities will reduce carbon emissions and help fight...

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