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This man is turning cities into giant sponges to save

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Approach to Urban Water
Management (Important)
Sponge Cities: Leveraging
Nature as Ecological
Infrastructure Walter Jehne
- The Soil Carbon Sponge,
Climate Solutions and
Healthy Water Cycles Sponge
Cities absorb and re-use
rainwater China builds
sponge city for flood
management Tapping into
sponge city drainage
ecosystems | Li Dihua **China
initiates 'sponge city'
program in face of water
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Management: Water scarcity
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Berlin pursues 'sponge city'
strategy to deal with
climate change Half Empty:

Promoting 'sponge cities' to
ease China's water shortages

What is the Future of Water?

~~MIT Water Summit 2020~~

~~Closing: Building water
resilience from the bottom~~

~~up — Newsha Ajami Sponge
City Plus, Ningbo, China~~

Sponge City Water Resource
Management

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

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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 ...

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 water and in minimising the environmental impact of water use on the city

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Sponge City: Water Resource
Management - Images
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Sponge City: Water Resource
Management in Landscape
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Sponge City: Water Resource
Management in Landscape
Design ...

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

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Management English And

Sponge City, Water Resource
Management by Sophie Barbaux

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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 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

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management = Ville perméable
: l'eau, ressource urbaine.
[ICI Consultants,;] --
Featuring projects carried
out in France which
demonstrate the concept of
"Sponge City".

Sponge city : water resource
management = Ville perméable
...

Sponge city : water resource
management = ville perméable
: l'eau resource urbaine /
edited by ICI Consultants ;
foreword by Sophie Barboux.
Also Titled. Ville perméable
Sponge city. French. Other
Authors. Barboux, Sophie,

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(writer of foreword.) ICI
Consultants, (editors.)
Published. Mulgrave,
Victoria : The Images
Publishing Group Pty Ltd,
2015.

Sponge city : water resource
management = ville perméable

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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 wetlands,
and permeable pavement, to

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naturally capture, slow
down, and filter stormwater.

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

Sponge City: Water Resource
Management in Landscape

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Sponge City: Water Resource
Management in Landscape
Design ...

A sponge city is a new urban
construction model for flood
management, strengthening
ecological infrastructure
and drainage systems. It can

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Management English And
French Edition

alleviate the city's waterlogging, water 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

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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 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

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Management English: And
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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 integrate natural ...

“Sponge City” in China—A
breakthrough of planning and

...

China Pushes ‘Sponge City’
Plan With First Rainwater
Rights Sale By Matthew Walsh

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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

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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

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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

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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

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it into the aquifers. At the same time it protects and recovers 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.

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Management English And

Berlin - International Water
Association
French Edition

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

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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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