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Management English And
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Sponge City Water Resource Management English And French Edition

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*sponge city for flood
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Design for Water** 8 *AMAZING
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Webinar* Hong Kong becomes
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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 —
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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 (English and
French ...

Yet heavy rainfall can
become an absolute disaster

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Management modern English And
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- 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 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: Water Resource
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Sponge city is a concept
originated from the use of
'sponge' to describe the
absorpting function of
cities. Population

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researchers in Australia And
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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"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 Barboux

...

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

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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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Featuring projects carried
out in France which
demonstrate the concept of
"Sponge City".

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Consultants, (editors.)
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Victoria : The Images
Publishing Group Pty Ltd,
2015.

Sponge city : water resource
management = ville perméable

...

Unlike traditional cities,
where impermeable roadways,

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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 naturally capture, slow down, and filter stormwater.

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

Sponge City: Water Resource
Management in Landscape

Design: Ahern, Jack:
9781910596616: Books -
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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 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

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

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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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integrate natural ... And French Edition

“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

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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 : ICI Consultants

•••

The 34 hectares urban storm

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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 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

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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 Water Strategy." The four basic measures of the Strategy are: the protection of water resources, the recovery of water in the environment,

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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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