

Sponge City vs Solar Power Generation

Is sponge city construction regenerative?

Accompanied by the development of sponge city construction, several emerging stormwater management practices are prevailing worldwide. This paper proposes a regenerative argument for sponge city construction from the urban scale towards the watershed scale by strengthening the urban water resilience and sustainability.

Does China's sponge city construction include source control?

The paper presents a review of sponge city construction from its inception to systematic demonstration. In this paper, research gaps are discussed and future efforts are proposed. The main contents include: (1) China's sponge city construction includes but is not limited to source control or a drainage system design.

Does sponge city construction strengthen urban water resilience?

The separation of natural ecological attributes and urban built-up areas affects the effectiveness of sponge city construction and management. Hence, the efficacy of this new policy in strengthening urban water resilience could be highly concerned. Table 1. Assessment indicators of sponge city construction.

Is the sponge city concept gaining ground?

At present, the Sponge City Concept (SCC) is gaining ground. Sponge Cities technologies are becoming more and more accepted by Chinese city governments, and the first best practices are being shared. However, there are still many challenges ahead which hamper effective implementation and upscaling.

Does sponge city control urban runoff?

The International Water Association (IWA) published many articles (for example, getting to Climate Resilient and Low Carbon Urban Water) about the performance of sponge city in controlling urban runoff and avoiding water scarcity.

Do people know about sponge city projects?

Results indicated that most respondents knew about sponge city projects and supported sponge city construction in residential areas. Respondents also accepted 17% of the domestic water price as a surcharge to be used for sponge city construction.

Transforming the existing building stock requires a long-term planning horizon, with urban restoration, regeneration, and modernization being key drivers for adapting the city to become a sponge city. A key challenge will be to align the ...

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