
Pyongyang solar Roof System

What is a sustainable roof?

Meanwhile, designing an integrated sustainable roof is a world-wide trend to sustainably use the roof for multi-purpose: greening roofs, cropping in greenhouse on roofs/open roofs, establishing a RWH system and solar photovoltaic generation (Hui and Chan 2011).

Why does Pyongyang have a drought?

It is due to climatic conditions in the case study area, Pyongyang. In spring, drought sets in because of little precipitation, whereas summer is a hot & wet and the heavy rainy season (Kim et al., 2012). Figures 8e-h show that the reliability according to the volumes represents 100% only in Jul. and Aug.

How much rainwater can a green roof store?

The simulation results of rainwater storage potential show that the potential varies in a range of 47-50 L/m² in the case of the growing substrate of 20 cm deep, which indicates that the structure of the green roofs could store 47-50 mm of rainwater, and thus the precipitation events of more than 50 mm could result in rainwater runoffs.

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In the context of PV systems, ensuring optimal performance and long-term reliability is paramount [21]. In response to this gap, the present study comprehensively ...

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