FEASIBILITY OF RAINWATER COLLECTION IN HDB FLATS

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Abstract

The environmental problems have never hit the Southeast Asian region so badly as in the recent months. Problems ranging from haze to the prolonged dry spell have led to social and economic unrest to the countries in this region.

There is a growing consciousness over one of the most undermined item – water. Water shortage in these countries was due to the poor water management and the prolonged dry spell, which was brought about by the El Nino Effect in the recent months. Water level fell below emergency level in many Asian cities. Asia's rapid development is also responsible for the shortage; water conservation has never been a priority item in the concept plan of these developing countries. There are many debates and discussions about raising water to a security level and this would definitely lead to higher rates.

Set in the tropics, we are blessed with abundant sun, wind and rainfall. It is time we learn how to celebrate these blessings.

The dissertation will focus on water conservation in the Singapore. The first part of the research will look into ways which water is conserved by the authorities, which only looks at the supply (water resource). The later part of the dissertation deals with the investigation into the feasibility of rainwater collection in an urban context by looking at both the demand and supply of water and later concludes by proposing new strategies which opens up new ideas to deal with this symbolic item.

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