

Housing Channel

Title: Zero Irrigation System

Super	Zero Irrigation System What is "Zero Irrigation System" (ZIS)?
Sr Landscape Architect (M)	In recent years, heavy rains, typhoons and droughts occur frequently To cope with climate change, the Housing Authority strives to explore new initiatives to achieve sustainable development of public housing "Zero Irrigation System"(ZIS) is a new initiative
Super (Title)	MR. AU HIN FAI, NICHOLAS Sr Landscape Architect 3
Sr Landscape Architect (M)	that puts water retention boxes underneath planting area for rainwater harvesting The collected rainwater is absorbed by plants saving potable water and manpower for irrigation
Super	"Zero Irrigation System" Principle
Sr Landscape Architect (M)	Rainwater is first absorbed into the soil during rainfall It is then collected in the water retention boxes under the ground When the soil above dries, capillary action draws water from the retention boxes up to irrigate the plants in a self-sustaining cycle This saves manual labour in irrigation and achieves "zero irrigation".
Super	The benefits ZIS brings to residents and housing estates
Super (Title)	MS. LAM MAN CHING, LYDIA Landscape Architect 20
Landscape Architect (F)	The ZIS effectively conserves water and reduces manpower required for maintenance Taking Wui Chi House of Tung Wui Estate as an example, its planting area is about 1,300 square meters After applying the ZIS, in average 2.5 liters of potable water per planting area (meter square) will be saved

Annually the ZIS saves about half of the water in a standard swimming pool

Super

Development of “Zero Irrigation System”

Sr Landscape Architect (M)

Since 2016, the ZIS has been applied in new public housing developments where appropriate
Our long-term goal is to widely adopt ZIS in all public housing estates
hoping to restore natural hydrologic cycle in urban area

Super

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