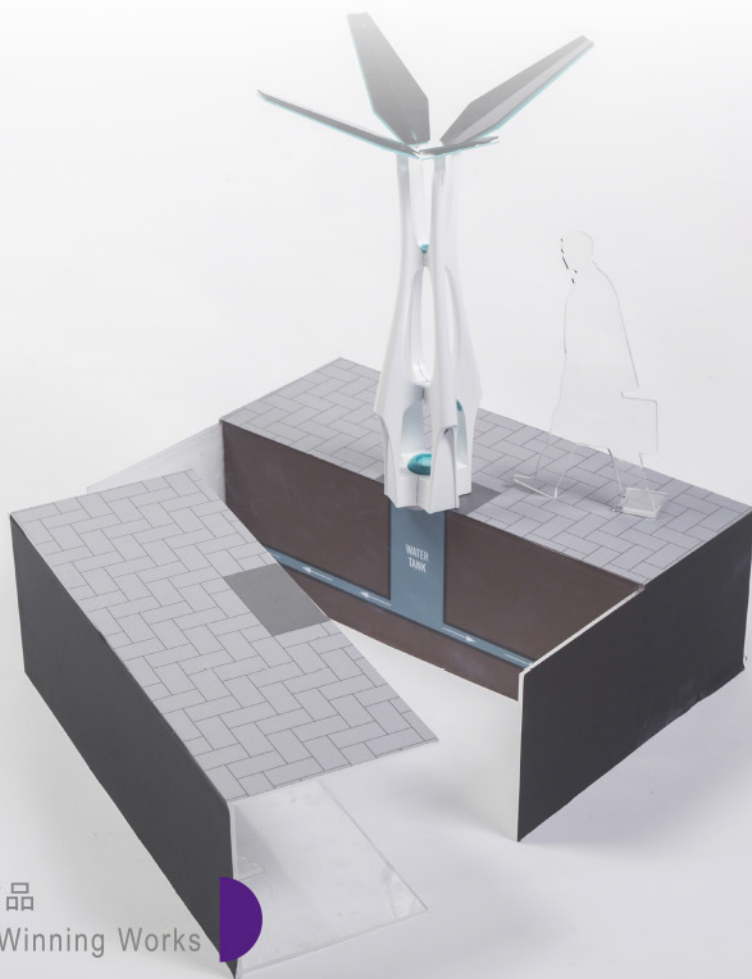


沈余濤

### The City Water Recycling System

City Water Recycle System為一因應城市中熱島效應所構想出的設計，它以路燈的型態設立在城市中，在平時以蒐集雨水並於氣溫過高時灑出水霧降溫，由於水霧會吸附塵土，所以設計上也結合空氣清淨系統，能將髒水霧還原成乾淨空氣，重複利用雨水達到降溫且清淨環境的雙重功效，整個機構靠太陽能電池板發電，不用額外消耗能量，而它頂端的太陽能板扇葉能在夜晚提供照明的電力也能在白天提供遮陰的空間。

The heat island effect has become a major issue in city life. The City Water Recycling System is a system that reduces temperature by using the pattern of street lights. Its design has a recycling system that can collect rainwater and store it in a water tank. When temperatures climb to a certain degree, rainwater which was collected in the water tank will be sprayed into the air to lower the temperature by almost five degrees. Also water mist will absorb particles in the air. This design also has an air purifier system. After this process, this design can provide clean air to the environment. This design has four solar panels, which can provide shade for people during the day and can produce power to provide light at night.

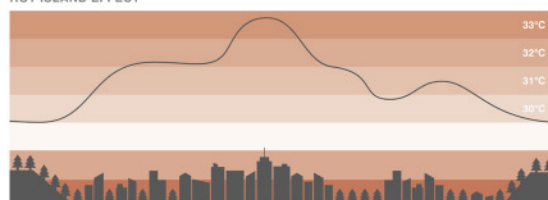


得獎作品  
Award Winning Works



## CITY WATER RECYCLE SYSTEM

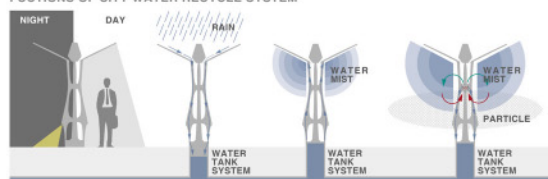
### HOT ISLAND EFFECT



### USE WATER MIST TO SOLVE HIGH TEMPERATURE PROBLEM



### FUNCTIONS OF CITY WATER RECYCLE SYSTEM



This design can shade people during the day. It also can provide lightness in the night.

This design has a recycle system. It can collect rainwater and store it in the water tank.

When temperature reach high degrees, rainwater will be sprayed to air to drop temperature. It can drop almost five degrees.

Water mist absorb particle in the air. To make environment clean, this design have a air purifier system. It recycle the water in the air and filter inside the system. After the process, this design provide clean air to environment.

### DETAILS OF CITY WATER RECYCLE SYSTEM

