

## Water Shortage in Singapore

### Part 1 Reasons for water shortage in Singapore

Let's read the article in Chinese and answer the questions.

當我們探討新加坡的水資源問題時，我們先從氣候類型入手，新加坡屬熱帶雨林氣候，年降水量超過 2000 毫米，是世界上年降水量最多的氣候類型。根據新加坡氣候資料，平均每月降水天數達 15 日左右，月均降水量達 170 毫米左右，這是一個降水極其豐富的地方，按理不應該缺水。但其實缺水問題不單是降雨量多寡的問題，地形、氣候、人口、經濟活動，甚至水利工程都可能導致缺水，更是分配、供給與管理的問題

那麼真正導致新加坡缺水的原因是什麼呢？主要是新加坡是一個島嶼國家，國土面積太小，其國土面積只有 719 平方千米，又是一個城市國家，造成很少有面積來儲存雨水。同時新加坡的人口數量達到 553 萬人（2015 年數據），是一個人口密度極高的國家，達 7697 人每平方千米，經濟又很發達，需水量極大。從而使得新加坡這個年降水量極其豐富的國家也缺水了。

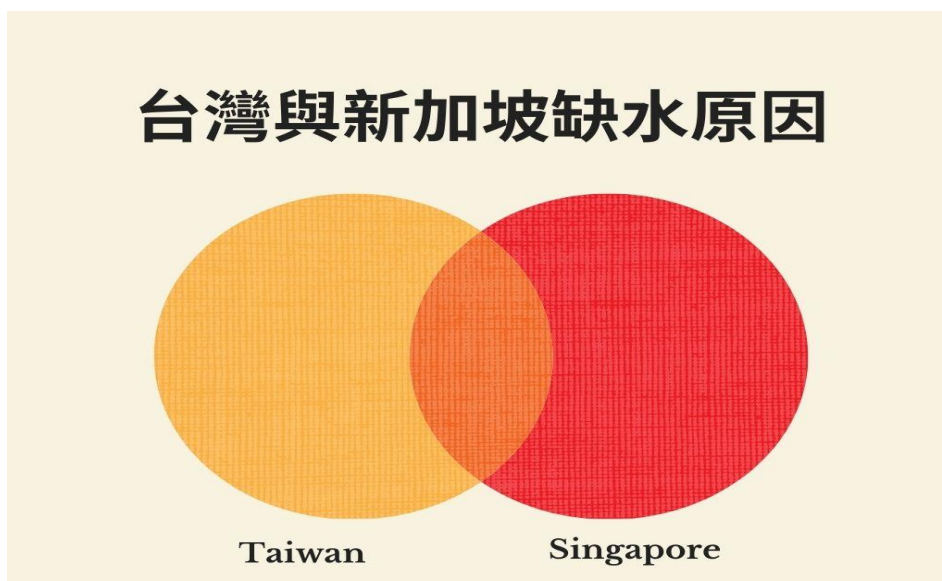
原文網址：<https://kknews.cc/travel/gvaz368.html>

1.造成缺水問題的原因有哪些？台灣缺水問題的原因在於？

2.新加坡真正缺水的原因是什麼？

(1) \_\_\_\_\_ (2) \_\_\_\_\_

延伸：請用缺水原因分析新加坡與台灣缺水原因相同與不相同的地方。



# Water Story in Singapore

Watch the video and write down the idea of it.

## Before watching

1. Each Group is responsible for a small part of the video.
2. Read the hint (提示) before you watch this video.

<p><b>G1</b> time: 0:00~0:50</p> <p>Main idea:</p> <p>Where does our water come from? Access to clean water</p> <p>Key word:</p> <p>access取得 growing population人口增長</p> <p><b>G2</b> time: 0:50~1:22</p> <p>Main idea:</p> <p>Singapore first source of water. Why do we need reservoirs</p> <p>Key word:</p> <p>reservoir水庫</p>	<p><b>G5</b> time: 2:55~3:31</p> <p>Main idea:</p> <p>Fourth source of water/How many desalination plants and how much water they can provide?</p> <p>Key word:</p> <p>desalination 海水淡化</p> <p><b>G6</b> time: 3:31~4:15</p> <p>Main idea:</p> <p>Draw they four sources water signs. Singapore's water in the future. How can we do our part?</p> <p>Key word:</p> <p>precious珍貴 conserve節省 value珍惜</p>
<p><b>G3</b> time: 1:22~2:07</p> <p>Main idea:</p> <p>How many reservoirs do we have? Why do we build a network of drain? What makes Singapore become a big reservoir?</p> <p>Key word:</p> <p>build 建立 network網路 drain下水道 urban area都市地區</p> <p><b>G4</b> time: 2:07~2:55</p> <p>Main idea:</p> <p>Singapore second and third water source--NEWater</p> <p>Key word:</p> <p>Malaysia 馬來西亞 import進口 recycle回收 Water Reclamation Plant 污水處理廠 microfiltration 微分子過濾 reverse osmosis 逆滲透 ultraviolet disinfection 紫外線殺菌</p>	

**While watching**

1. Listen repeatedly until you can write down the main idea in Chinese of your group part.
2. Double check the main idea you wrote with your members.

Main Idea of your group video part. (Either Chinese or English)

**After watching**

1. Each group send a representative to the front and report your group part for the video.

Main Idea of the whole video. (Either Chinese or English)

2. Group discussion:

(1) What can we learn from Singapore?

(2) Can we copy their ways of dealing with water shortage? Why or Why not?