

Impact 影響

6.6%

of water saving among participating households, compared to baseline data.
參與家庭的節水百分比。

Amount saved 共節省了：

597,191

liters of water +
公升用水

6,258

kWh of energy
千瓦·時能源

OR
或

4,380

kg of carbon emissions
公斤的碳排放



Co-organizer 合辦機構



A Study on Household Water-use Pattern in Tai O 大澳居民用水習慣調查



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Background 背景

A wireless Automatic Meter Reading (AMR) system has been installed in Tai O, since 2021, by the Water Supplies Department. The AMR system enables remote meter reading via wireless data transmission.

自2021年，水務署於大澳安裝自動讀錶系統，配有遙距讀錶及無線傳輸的功能。



Research focus 研究重點

To develop methods and technologies of a personalised water usage feedback system, using data collected by an AMR system.

利用自動讀錶系統所收集的數據，建立個人化用水反饋的系統和技術。



Aim 目標

To attain a 3% reduction in domestic water consumption among project participants.

使參與家庭的家居用水量減少3%。



Milestone 里程碑

- 2023 /04 ● Project start 項目開始
- /07 ● Recruitment 招募參與家庭
- /08 ● Baseline data collection 基線數據蒐集
- /09 ● Provision of monthly water-use report 每月用水報告反饋
- /12
- 2024 /01 ● Project conclusion 項目結束

Research design 研究設計

A quasi-experiment covering 268 households of various housing types and household sizes over a 5-month period.

一項涵蓋268戶不同類型住房和不同家庭規模的準實驗，為期5個月。



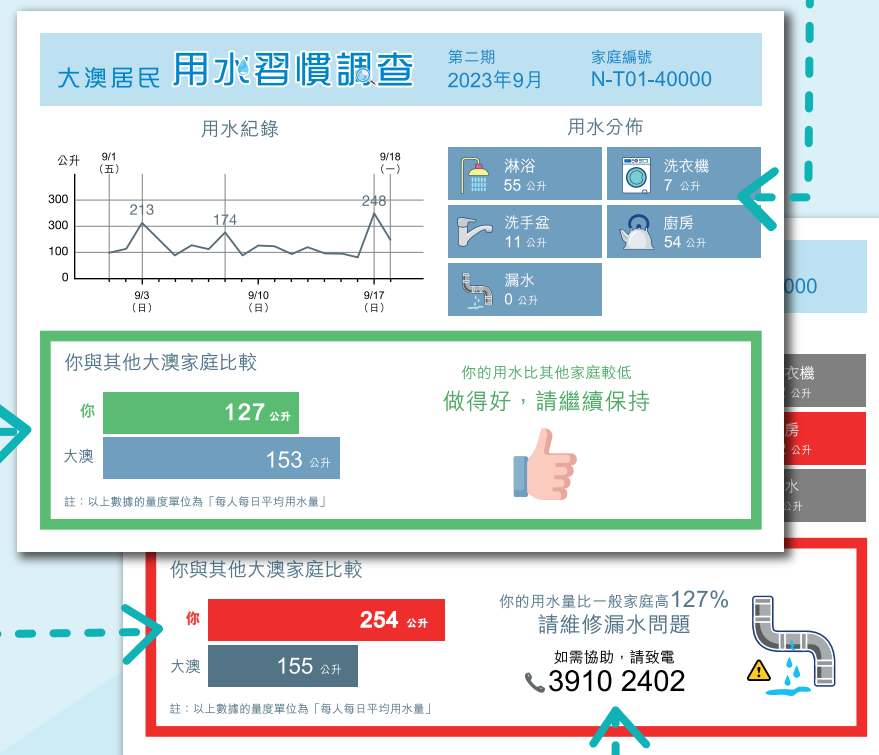
Water-use report adapted for the Tai O Community 為大澳居民制定的用水報告

Monthly water-use reports are customised for the **elderly-dominant** community in Tai O. 每個月向參與家庭寄出的用水報告，特別為長者人口比例較高的大澳社區而設計。

Report features 報告特點

- 1 A **graphical approach**, with large and color-coded fonts, to cater for the Tai O community predominantly comprised of **elderlies** and residents with **low levels of literacy**.

圖像主導、加大字體及「紅綠燈」標識方法來設計，方便長者及識字率低的人士閱讀



- 2 To provide **social comparison** to motivate water conservation 利用社會比較提高參與家庭節約用水的動力

- 3 To provide a **support hotline** for high usage participants and those with water leakage issues 設立支援熱線，為有漏水及高用水問題的參與家庭提供支援