

Rethinking Sustainable Water Use

–Lessons from water management in Perth–

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● Why focus on water?

- My host mother said to me, “We have to pay a fine for the water corporation if we use too much water in the house.” (=water shortage)
- ↑↓ **Realizing this inconsistency made me want to research it further.**
- Water bottles are provided to us by the school, and water stations are located throughout the town. (=give water)

● Situation in Perth

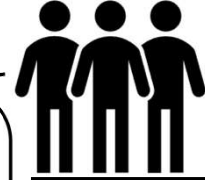
Problem: Perth has a water shortage because it is one of the world's driest areas.

Solution: Both the residents and the government routinely conserve water.

< Water-saving methods learned from interviews with residents >

- Do not shower every day. / short shower(my home stay house rule: 5min).
- **Carry a water bottle.**
- Stop the tap water running while brushing your teeth.
- Use the dishwasher once it is full.
- Don't do laundry every day(my home stay house rule: once a week).
- Use a drum-type washing machine.

→ a drum-type: about 7~9L / 1kg a top-loading washing machine: about 10L / 1kg



Residents' water conservation awareness is high because the government creates a good environment for saving water.

< Water-saving methods of the government × the water corporation >

Waterwise Perth Program — comprehensive water-saving plan to protect Perth's future water resources.

Among these, the initiative that caught my attention

Water Station of Waterwise City Program

- Installed on pavements, at tourist attractions, and in parks.
- Example: Perth Zoo supplied 200,000L/a year
- Not only can you drink from it, but you can also fill your bottle.
- User-friendly design that encourages usage.
- bright design & message
- Percentage of users among the residents interviewed.
- Have used: about 80% / Have not used: about 20%

REDUCE Plastic waste
REFILL Your bottle
REHYDRATE Your body



This initiative is committed to residents' lives.
Also, it promotes **“Carry a water bottle.”**

● Situation in Kagoshima

Problem: Lack of awareness of saving water because Kagoshima has plenty of water.

[Interview about residents' saving water awareness]

Q: Have you ever tried to save water in your daily life? A : Yes→About 10% / No→About 90%

● My thoughts & goal

I want to raise water-saving awareness among Kagoshima residents. What actions are needed to make it happen?

Promoting **the carrying of a water bottle** and creating an environment that supports it (=the water station).

This is because it is simple and easy to start in daily life.

→ It can be the first step to raising their awareness of saving water.

[Current situation about users of the water station and carrying a water bottle in Kagoshima]

Q: Have you ever used the water station in your daily life? A : Yes→About 30% / No→About 70%

Q: Have you ever carried a water bottle in your daily life? A : Yes→About 10% / No→About 90%

My goal: Installing water stations in Kagoshima that people want to use, based on what we learned from Perth's initiatives.

● My Suggestion & Challenges

My Suggestion: New water stations will be established to help Kagoshima residents carry their water bottles.

- Place them at the tram and JR/bus stations, in the city center, and at tourist spots.
 - Not only can you drink from it, but you can also fill your bottle with water.
 - A design that makes you want to use it, distinctly Kagoshima. → Example: shirokuma, Sakurajima, satsumakiriko
 - Message in the Kagoshima dialect. → Example: 「水、大事にすっど! ,水筒に水くめっど! ,プラのごみ、減っど!」
 - Display a QR code that shows the usage date and amount of water for the user monthly.
- the usage amount of water: show how many 550-ml vending-machine bottles it is equal to buying.
→ also shows how much money is being saved. → Creating opportunities to attract more users.



Other good effects: Reduce plastic, Prevent heatstroke, save resources used to supply water

Challenges: High costs(Example: installation and maintenance ETC...)