

WOTA seeks
structural solutions
to the world's water crisis

Confidential

title. [Addressing The Water Challenges with Decentralized Water Regeneration System](#)

date. ADB E-MARKETPLACE - April 9, 2026

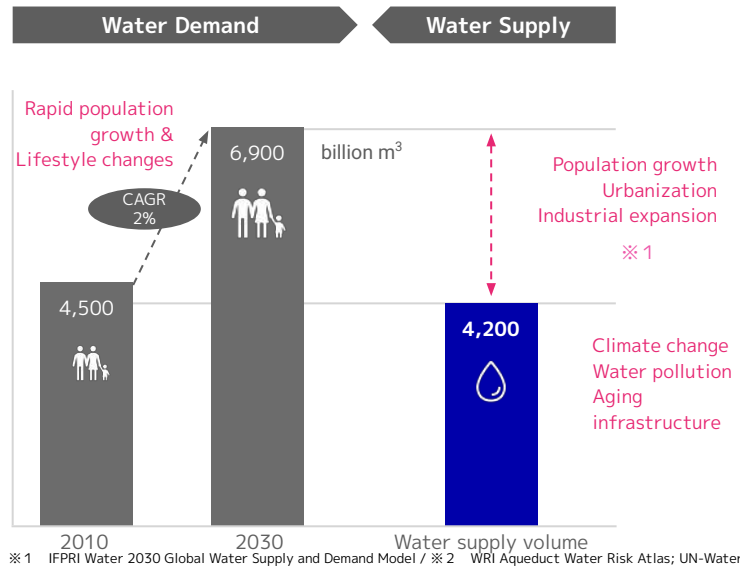
wota.co.jp



WOTA

Global Water Crisis: Structural Supply-Demand Gap & Escalating Water Stress

Global Water Supply & Demand: Widening Structural Gap



Water Stress: A Multidimensional Threat



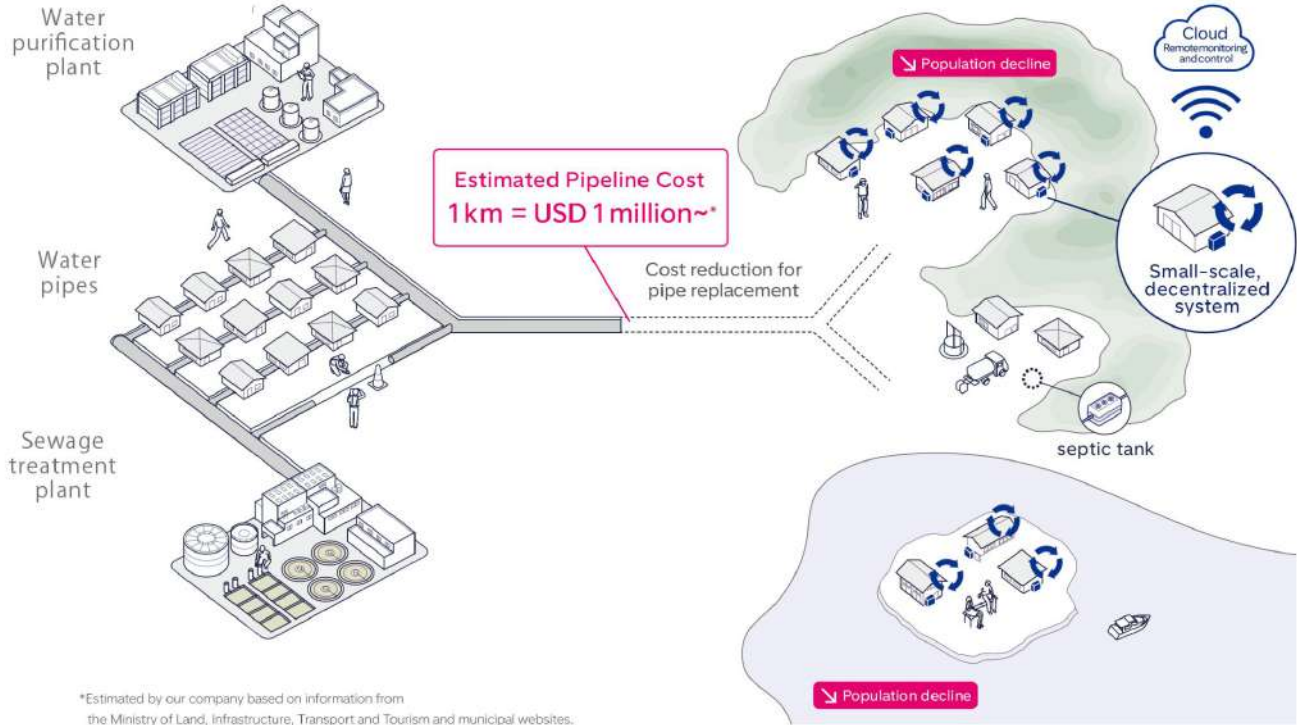
By 2030, **global water demand could exceed supply by 40%**
Existing centralized infrastructure alone cannot close the gap

Today, **2.4 billion people** live in areas of extreme water stress
Impacting food security, health, economic stability & ecosystems

Solving World's Water Crisis with a Small-scale, Decentralized System

Large-Scale Centralized System

Small-Scale Decentralized System



*Estimated by our company based on information from the Ministry of Land, Infrastructure, Transport and Tourism and municipal websites.

WOTA

**WOTA Seeks
Structural Solutions to
the World's Water Crisis**

Company name	WOTA Corp.
CEO	Yosuke Maeda
Date of establishment	October, 2014
Capital	100 million JPY
Location	1-13-13, Nihonbashi-bakurocho, Chuo-ku, Tokyo

Our Competence: Autonomous Operation and Maintenance

Conventional Water Treatment

Human-dependent O&M



**Qualitative,
based on senses**

Experience-based

**Knowledge
accumulated
in individual
employees**



WOTA's Core Technology

Autonomous O&M



1. IoT Sensors

Small sensors decrease costs by 10x to 100x.

2. Algorithmic Automated Control

Our machine-learning algorithm optimizes and automates control based on data from our sensors.

3. Data Ecosystem

Our algorithm is constantly updated based on data from all of our devices.

WOSH

Water-Regeneration Handwashing Stand



Water recycling
rate



No construction
needed



Only a power
source required



Feature #1

Hand sanitation with clean water and soap

In compliance with the WHO
Guidelines for Drinking-water
Quality



Feature #2

Water recycling rate >98%

20ℓ of water enables 1,000+ hand
washes

Monitor and control water quality
with sensors and proprietary
algorithms



Feature #3

For both regular and emergency use

600+ located in Japan incl.
commercial facilities and public
areas

WOTA BOX

Portable Water
Regeneration System



Feature #1
Clean and safe water

In compliance with the WHO
Guidelines for Drinking-water
Quality



Feature #2
Water recycling rate >98%

Provides showers for 100 people with
100ℓ



Feature #3
Utilized at disaster sites

Number of individuals provided with
shower services: **20,000+** people

Noto Peninsula Earthquake

Jan 1, 2024



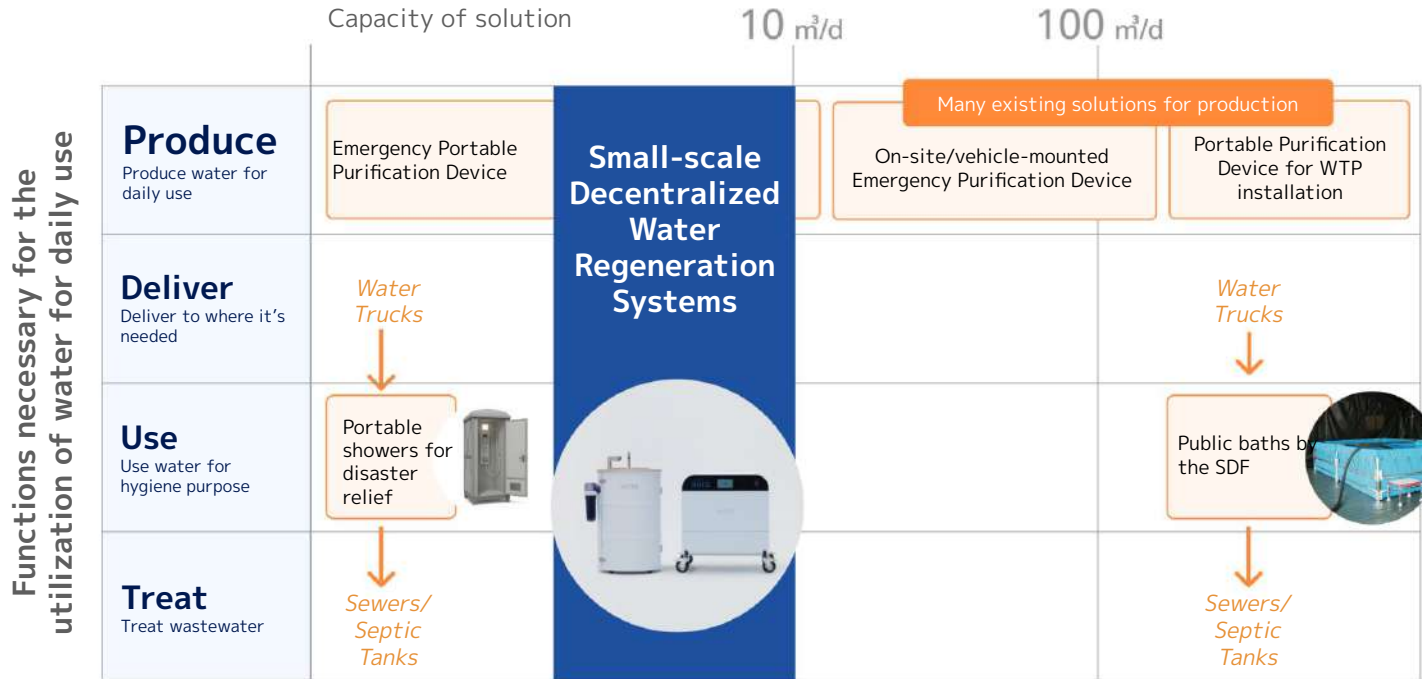
WOTA covered 89% shelters with long-term water outage

Within a month, 100 WOTA BOX and 207 WOSH were deployed, covering 12,000 people. They were managed autonomously by local residents.



⇒ Wide recognition of the “power” of water recycling system

An Integrated Solution for Production, Delivery, and Treatment is Needed



Available for use immediately after disaster, with production, delivery, and treatment in one package.



His Majesty the Emperor Naruhito

*"The use of **autonomously controlled portable water reclamation systems** to provide bathing and hand-washing services is helping survivors in difficult circumstances. I heard that these efforts are being undertaken by a company founded by young people. I hope that the vitality of young people, including the activities of volunteers from all over the country, will open up new possibilities for our country"*

*Birthday Press Conference (2024/2/23)*1*



The Former Prime Minister Ishiba

*"Immediately after my inauguration, I visited the Noto Peninsula, which was devastated by the earthquake and torrential rains. While many people are still struggling to survive, I saw the benefits of innovation, such as the clean water provided by **WOTA's showers and hand washing machines**, even in areas where the water supply had been cut off."*

*Video message to GRIC2024 (Global Startup Conference)*2*



The Former Prime Minister Kishida

*"Hot showers, which can be used even when the water is cut off, have been active in relieving the fatigue of evacuees. **A start-up company with technology to circulate, filter, and reuse water for domestic use has provided this service"***

*213th session of the Diet*2*

“Decentralization” Integrated into Highest-level Policy of the Government

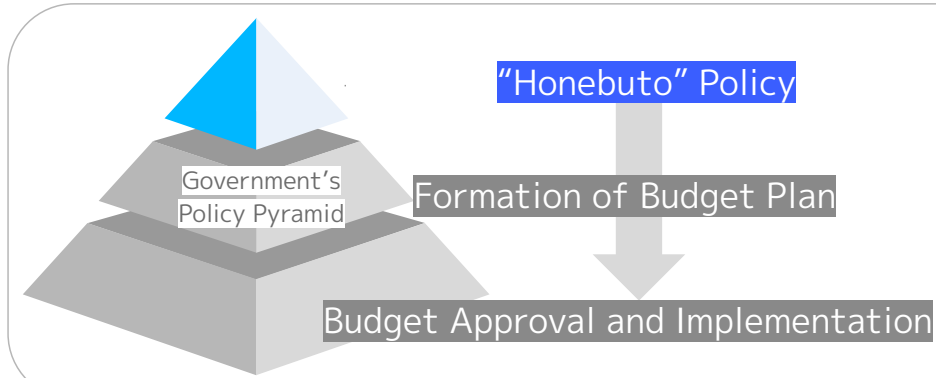
“Honebuto Policy 2024”

Portable Water Business (BOX)

‘Emergency measures for disasters including securing water with “water recycling showers”’

Residential Water Business (New Product)

‘Express that alternative water sources will include “consideration of decentralized systems”’



The “Honebuto” Policy

Acts as the cornerstone for formulating strategies. It outlines the fundamental stance on budget proposals and the direction of policies that the administration will focus on for the year.

Based on the policy, every municipality considers and formulates the budget of the year.

*The Japanese word “honebuto” (骨太) literally means “big-boned”, which implies that the policy is robust, solid, and fundamental.

WOTA Unit

Residential Water Regeneration System



Feature #1

Clean and safe water

Drinking water quality standards under the Water Supply Service Act (51 items)



Feature #2

Water recycling rate >97%

With supplement of rainwater, nearly 100% of household wastewater is recycled and circulated



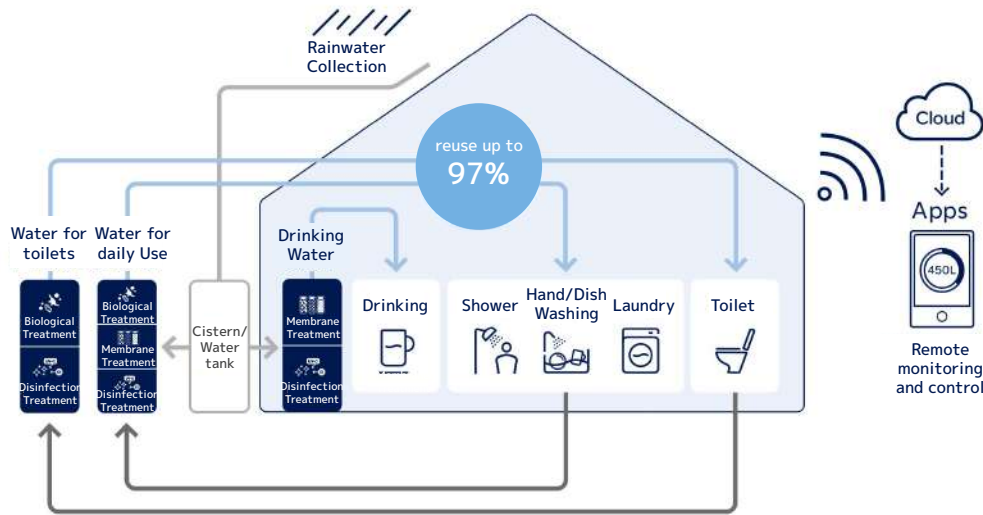
Feature #3

Smart Maintenance

Monitor available water levels and receive maintenance notifications through app

WOTA Unit

Residential Water Regeneration System



Water Quality

Water for daily use/ Drinking Water: Drinking water quality standards under the Water Supply Act (51 items)

Toilet Water: Flush water standards per the Ministry of Land, Infrastructure, Transport and Tourism's "Manual on Water Quality Standards for Reuse of Treated Sewage Water"

Dimensions	Width: 1,680mm (66.14 in) Depth: 780mm (30.71 in) Height: 1,400mm (55.12 in)
Power	110 V / 60 Hz, 105W
Capacity	720 L/day
Weight	166 kg (when dry)
Source Water	Greywater (up to 97% recycling, with rainwater replenishment)
Water Quality	Potable water (Designed to meet Japanese Drinking Water Quality Standards)
Maintenance Responsibility	Homeowner (every 4 months): filter replacement, chemical refill Maintenance Service Provider (every year): replacement of parts, removal of excess sludge
Installation Requirements	The drainage pump, water pump, and installation base
Use Environment	0°C (32°F) - 40°C (104°F), Tested for corrosion & strong (Cat. 3 hurricane) winds

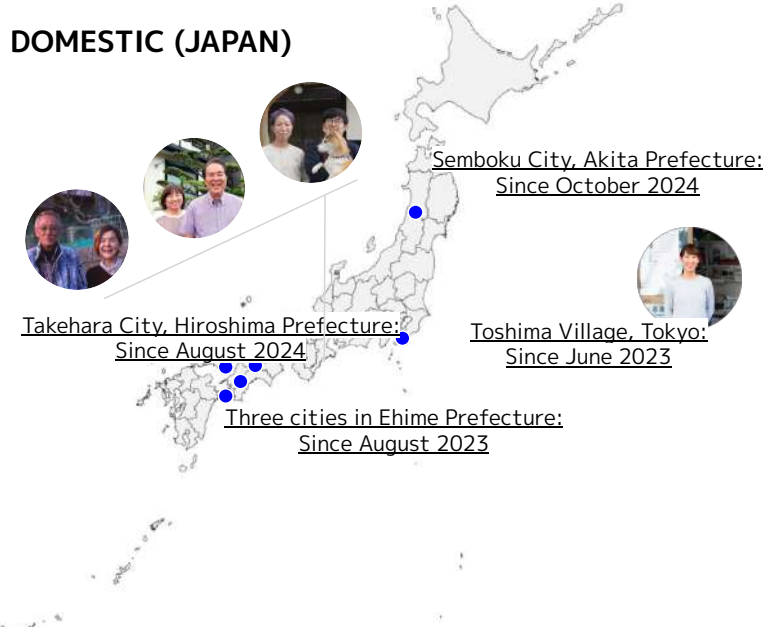
Specifications of Greywater System

Multiple Deployments in Real-world Settings, Reaching TRL 6 in Jan 2025

**Multiple Units in Operation for 2+ Years
(Japan, Antigua & Barbuda)**

**Selected for "SBIR Phase 3", a National Program
for Large-Scale Technology Demonstration**

DOMESTIC (JAPAN)

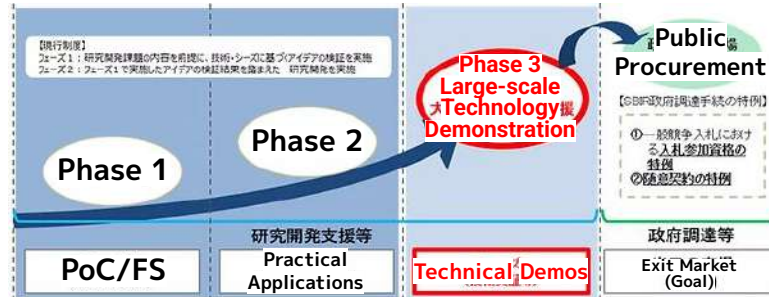


Consistently met JP drinking water quality standards in all deployments

- **Awarded:** October 2023
- **Project Title:**
Social Implementation Project for Small-Scale Decentralized Water Regeneration Systems for Residential Use
- **Contract Period:** 2024–2026



SBIR Phase 3



Designed to provide the validation needed for public procurement

If renewed with existing systems



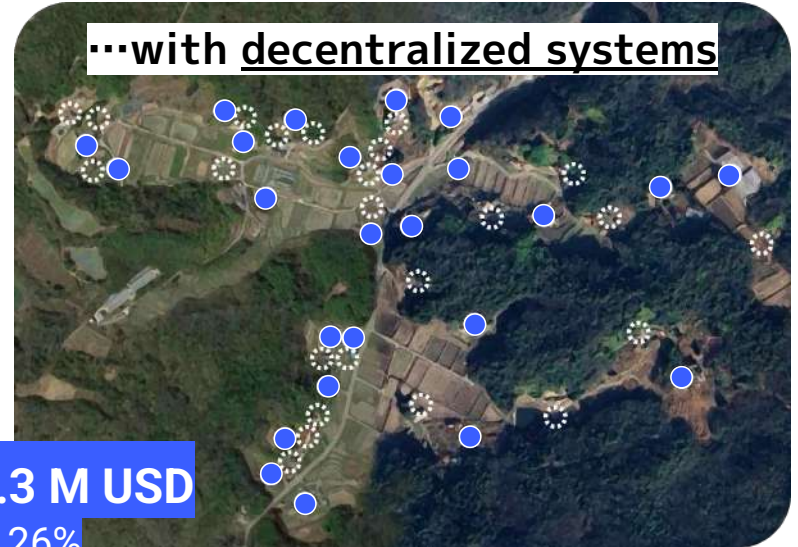
5.0 M
USD

Estimated Cost for
Water Supply and
Wastewater Treatment
(Over 40 Years)

- Existing Plumbing
- Households
- Decentralized Systems
- Vacant Houses (Population Decline)



...with decentralized systems



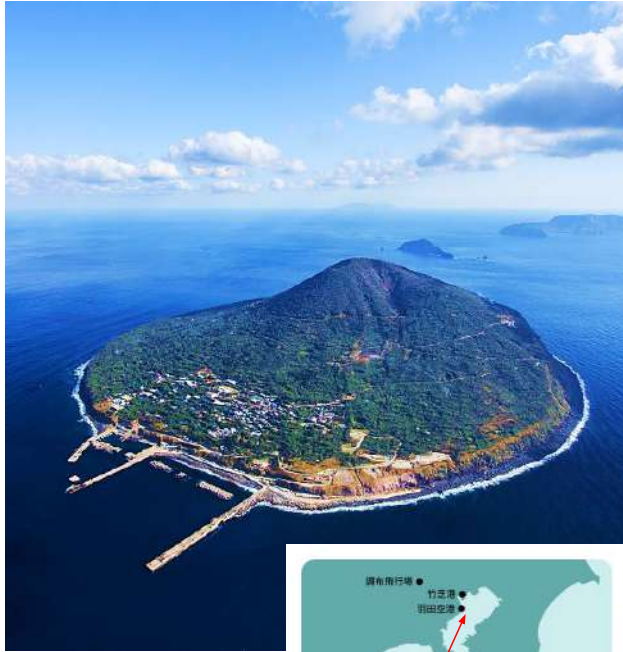
1.3 M USD
△26%

3.7 M
USD

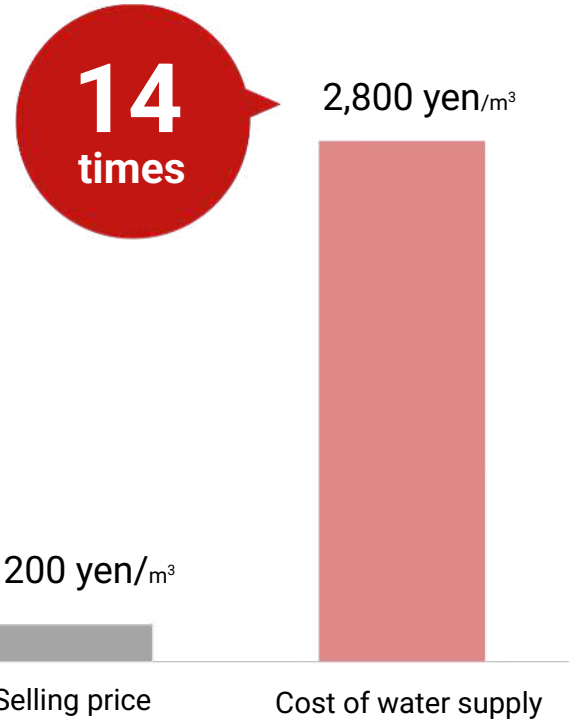
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- Existing Plumbing
- Households
- Decentralized Systems
- Vacant Houses (Population Decline)

Toshima Village suffers from drought and high water supply costs



Toshima Village, an island of Tokyo, 140km away from the heart of Tokyo



Deployed Trailer Homes Equipped with Water Regeneration Systems



40ft container-size
(10ft 4-unit integrated model)
Proven for >1 year of
continuous residential use



Installation of Emergency Water Regeneration Systems at Elementary Schools



The Earthshot Prize, an environmental award launched by the Royal Foundation and Prince William, selected WOTA for Prince William Special Prize.

“Yosuke Maeda from Japan, has created a tiny water treatment plant—WOTA Box—that turns 98% of wastewater into clean water.”
“Their potential is off the charts.”

-Prince William, Duke of Cambridge



Antigua & Barbuda, one of the world's most water stressed nations

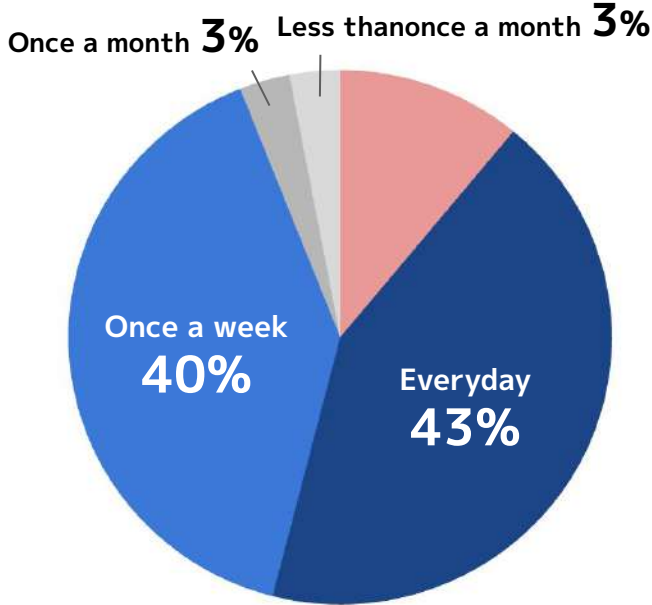


Small Island Nations - All variations of problems in a compact area

Although huge strides have been made, Antigua still faces numerous **water-related challenges**:

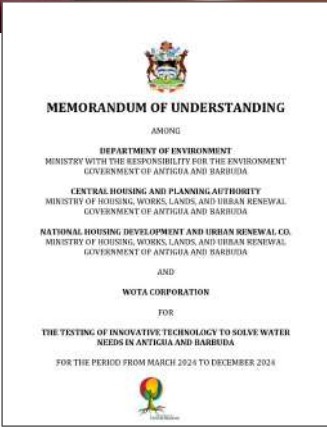


Water Interruption Frequency in Antigua and Barbuda



n=35 households

MOU with A&B Government & Funding from JBIC



MOU with A&B Government for: On-site pilot testing & Assessment for implementation at large-scale

Signed on Mar. 25th, 2024 between: A&B: DOE (Department of Environment), CHADA, NUJURC

“Financing for a Japanese Company to Manufacture and Sell Small-Scale Decentralized Water Regeneration Systems in Antigua and Barbuda” Feb. 29th, 2024



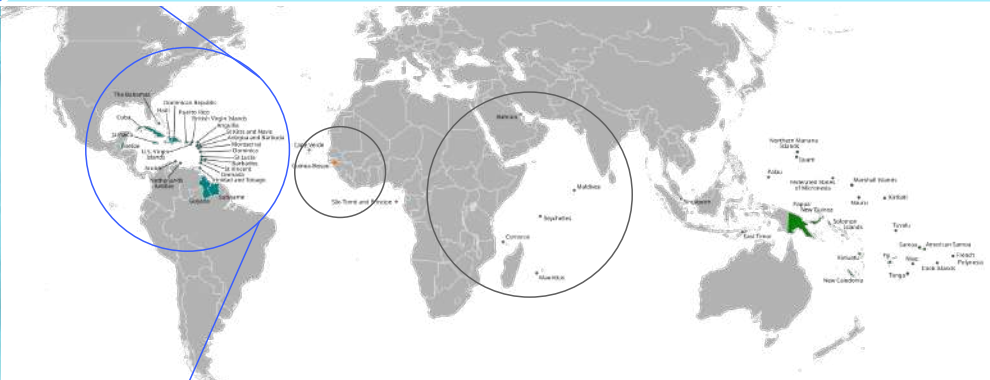
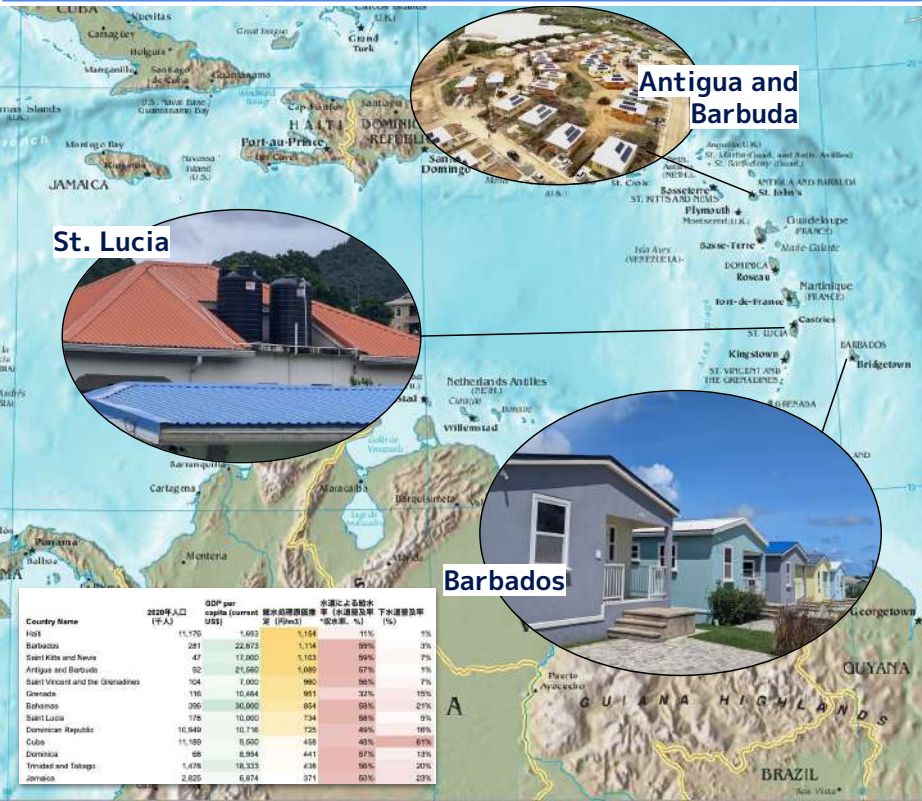
Deployment begun through Housing Corporations: ~3,000 homes over 5 years



Expanding the Caribbean Model to Small Island Developing States Worldwide

Caribbean population affected by water issues*
25 million people

Global population of Small Island Developing States (SIDS):
70 million people**



Region	Country Name	2020年人口 (千人)	GDP per capita (current US\$)	総水供給量 (億リットル)	水需要による給水量 (億リットル)	水需要超過率 (%)	下水処理率 (%)
Oceania	Tuvalu	10	5,465	610	60%	74%	74%
	Tonga	196	4,692	696	60%	3%	3%
	Palau	18	14,555	858	51%	73%	73%
	Samoa	---	---	---	---	---	---
	Fiji	---	---	---	---	---	---
	Nauru	---	---	---	---	---	---
	Vanuatu	---	---	---	---	---	---
	Solomon Islands	---	---	---	---	---	---
	Micronesia (Fed)	410	3,992	441	97%	13%	13%
	Kiribati	125	2,090	960	50%	20%	20%
	Marshall Islands	43	6,763	950	49%	16%	16%
	Papua New Guin	8,716	2,995	951	32%	19%	19%
	Singapore	5,682	84,734	1,078	11%	1%	1%
	Timor-Leste	1,314	1,649	445	89%	23%	23%
Middle East	Maliawi	496	12,667	1,198	21%	2%	2%
	Burman	1,478	29,394	1,194	11%	1%	1%
Latin America	Belize	388	7,988	612	56%	9%	9%
	Sri Lanka	909	6,999	851	42%	2%	2%
	Guyana	803	20,626	851	39%	2%	2%
Caribbean	Barbados	281	22,873	1,114	99%	3%	7%
	Saint Kitts and Nevis	47	11,000	1,103	99%	7%	7%
	Bahamas	396	30,000	854	98%	21%	21%
Saint Lucia	178	10,000	734	98%	5%	5%	
Asia	Maldives	511	12,667	1,198	97%	13%	13%
	Palau	18	14,555	858	51%	73%	73%
	Samoa	---	---	---	---	---	---
Latin America	Cabo Verde	514	4,322	1,095	62%	28%	28%
	Comoros	784	1,587	909	41%	5%	5%
	Guinea-Bissau	1,981	914	486	24%	1%	1%

A total of 38 Small Island Developing States worldwide**

Global Projects Under Discussion

Indonesia 



Urban Water Challenges
Land subsidence and river pollution from inadequate wastewater infrastructure in densely populated areas

India 



Water Demand in Growing Cities
Infrastructure delays hindering sanitation improvements amid rising water consumption

UAE 



Local & Seasonal Water Needs
High cost and environmental impact of desalination; water issues at construction sites

The Philippines 



Island Water Access & Resilience
51% lack safely managed water; archipelago geography and typhoon exposure demand decentralized solutions

WOTA addresses diverse water challenges globally with small-scale decentralized solutions.

Next Steps: From Dialogue to Impact

START HERE



Discussion

Share your water challenges and explore how WOTA can help



Proof of Concept

Joint pilot project tailored to local needs



Implementation

Scale solutions across communities and regions

We would love to start by **hearing about your water challenges.**
Let us explore together how WOTA's decentralized technology can create **real impact in your communities.**

WOTA Seeks Structural Solutions to the World's Water Crisis

wota.co.jp



Contact:
Head of Business Development, APAC
Shiro Gotsubo
E-mail: gotsubo.shiro@wota.co.jp

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