

# Mobile Water Security Platform

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Rapid Deployment Drinking Water Infrastructure for Remote Communities, Islands and Humanitarian Operations

## Executive Investment Overview

Access to safe drinking water remains one of the most persistent infrastructure challenges worldwide, particularly for small communities, islands, remote settlements and emergency situations where permanent infrastructure is too expensive or too slow to build.

The Mobile Water Security Platform provides a rapidly deployable, fully autonomous system capable of producing WHO-compliant drinking water directly at the point of need.

Unlike traditional water infrastructure requiring pipelines, large treatment plants and electrical grid connection, the system delivers immediate potable water supply through a compact, transportable platform that can be operational within minutes.

This solution enables governments, humanitarian agencies and remote industries to secure reliable drinking water without the capital burden of conventional infrastructure development.

## Global Market Opportunity

More than 2 billion people worldwide lack reliable access to safe drinking water. Thousands of small communities, island regions and remote settlements require decentralized water supply solutions.

Key market drivers include:

- Climate change and increasing droughts
- Aging water infrastructure in rural regions
- Growth of small island populations
- Expansion of mining and remote industrial operations
- Humanitarian and disaster response needs
- Military and field operations

These trends are driving increasing demand for rapid deployment water systems capable of operating independently from conventional infrastructure.

## The Solution

The Mobile Water Security Platform is a compact, modular system designed to produce safe drinking water in locations where traditional infrastructure is impractical.

Core capabilities:

- Treats seawater, brackish groundwater or contaminated freshwater
- Fully self-contained system requiring no external power infrastructure
- Rapid deployment – operational within minutes
- Automated operation with minimal technical training required
- Transportable configuration suitable for vehicles or skid mounting

## Technical Performance

### Water Sources Treated

- Seawater
- Brackish water
- Contaminated freshwater

### Production Capacity

- Up to 120,000 litres/day (freshwater)
- Up to 100,000 litres/day (brackish water)
- Up to 20,000 litres/day (seawater)

### Water Quality

- TDS < 500 ppm
- 99.9% virus removal
- WHO drinking water compliance

## Operational Efficiency

- Approximately 500 litres of potable water produced per litre of diesel
- Low operating cost
- Compact footprint (approx. 460 kg system)
- Rapid mobilization capability
- Minimal operator training required

## Primary Applications

### Permanent Supply

- Small towns and rural communities
- Island settlements
- Remote villages
- Areas where infrastructure upgrades are uneconomical

### Emergency Deployment

- Disaster relief operations
- Drought response
- Refugee and humanitarian camps
- Military and field operations

### Industrial & Remote Operations

- Mining sites
- Construction camps
- Remote energy projects

## Strategic Value for Governments and Organizations

- Strengthens national water security
- Enables rapid response to water crises
- Reduces capital expenditure compared with traditional infrastructure
- Improves resilience against drought and climate variability
- Expands water access for remote populations

## **Business & Deployment Model**

The system can be deployed through multiple models:

- Direct government procurement
- Public-Private Partnerships
- Humanitarian procurement programs
- Leasing or service-based supply contracts
- Regional shared asset programs

## **Next Steps**

Potential partners and investors are invited to explore pilot deployment opportunities, distribution partnerships and regional implementation programs.

The system represents a scalable solution capable of addressing one of the most pressing global infrastructure challenges: providing safe drinking water wherever it is needed.

## **Contact**

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