

THE URBAN WATER CRISIS



Survival Window 72 Hours

Access to safe water may be limited within the first 72 hours after a disaster, a critical period to save lives.



Vulnerable Infrastructures

Water supply systems are highly susceptible to damage from seismic activity and pathogenic contamination.



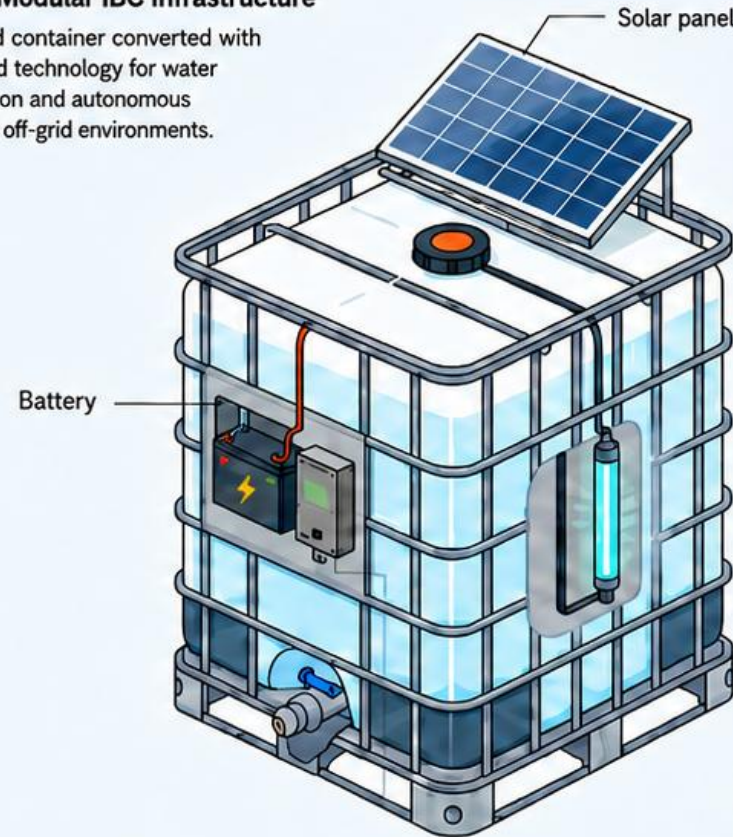
High-Risk Communities

The most vulnerable groups, such as the elderly, hospitalized patients, and school children, are the most at risk.

THE SMART MODULAR SOLUTION

1000L Modular IBC Infrastructure

Standard container converted with advanced technology for water purification and autonomous supply in off-grid environments.



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Sensor Layer

- pH
- Turbidity
- Temperature
- Water Level
- Flow

Processing and Control Layer

Managed by an STM32 microcontroller, it controls the UV-C and circulation pump to ensure efficient water treatment.



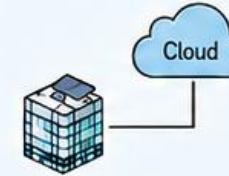
Fair Resource Allocation Layer

Verifies water quality and authenticates users via RFID to ensure fair distribution based on SLA, preventing waste and mismanagement.

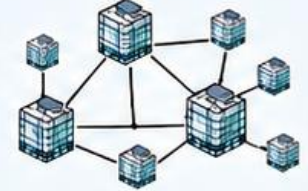


RESILIENT COMMUNICATION AND SUPERVISION

Operating Modes: Normal vs. Disaster



In Normal mode, the system connects to the cloud.



In Disaster mode, gateways form a mesh network that allows local nodes to communicate without internet.

WEB DASHBOARD

