

MOBILE WATER SECURITY SYSTEM

A Practical Water Supply Solution for Small Communities

Reliable. Affordable. Immediate.

Why This Matters to Water Authorities and Developers

Many small towns and rural communities face:

- Aging or unreliable water infrastructure
- High cost of upgrading treatment plants
- Expensive pipeline extensions
- Drought-related supply risks
- Growing compliance pressure on water quality

For smaller populations, building or upgrading permanent water infrastructure can cost millions, often beyond reasonable per-ratepayer affordability.

This system offers a practical alternative.

What It Is

A compact, fully self-contained mobile water treatment unit that:

- Produces safe drinking water on-site
- Requires no connection to the electricity grid
- Can be deployed within minutes
- Operates with minimal training

It treats seawater, brackish groundwater, or contaminated freshwater and delivers water compliant with WHO drinking standards.

Why It Makes Sense for Small Communities

Instead of investing heavily in:

- New treatment plants
- Long-distance pipelines
- Major electrical upgrades

Council can deploy a modular system that:

- ✓ Supplies up to 120,000 litres per day (depending on source)
- ✓ Avoids major capital expenditure
- ✓ Can serve small population clusters
- ✓ Can be relocated if community needs change
- ✓ Acts as backup during emergencies

For many towns, this becomes a **cost-effective bridge or long-term decentralized solution.**

Typical Use Cases for Councils

Permanent Supply for Small Towns

Where upgrading an aging plant is uneconomical.

Drought Backup System

Provides security during dry seasons or bore failure.

Remote Communities & Outstations

Where pipeline extension is financially unjustifiable.

Emergency Response

Floods, bushfires, contamination events.

Population Growth Areas

Interim supply while long-term infrastructure is planned.

What It Delivers

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

Efficiency

- 1 litre diesel \approx 500 litres drinking water
 - Low operating cost
 - Compact footprint (approx. 460 kg system)
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Financial Perspective for Council

Compared to traditional infrastructure:

Traditional Upgrade	Mobile System
Multi-million CAPEX	Significantly lower capital cost
Multi-year build	Immediate deployment
Fixed asset	Relocatable
High design risk	Proven modular technology

It reduces financial exposure while maintaining service reliability.

Policy & Community Benefits

- Strengthens water security
- Improves public health protection
- Supports climate resilience planning
- Demonstrates responsible fiscal management
- Enhances emergency preparedness

For small councils, this is about **risk reduction and smart capital allocation.**

Deployment Options

- Direct council purchase
 - Regional shared asset model
 - State-supported resilience funding
 - Public–Private partnership
 - Lease or service-based model
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Recommended Next Step

1. Technical briefing for Council & water engineers
 2. Preliminary feasibility review of local water source
 3. Cost comparison vs infrastructure upgrade
 4. Optional pilot demonstration
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Reliable water supply without overbuilding infrastructure.

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