



SUSTAINABLE WATER CONSUMPTION: OPTIONS FOR GREY WATER FILTRATION SYSTEMS FOR HOMES

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Inglés II, 2022.

Source: <https://waterandhealth.org/safe-drinking-water/is-gray-water-safe-for-domestic-reuse/>

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PROBLEM AND POSSIBLE SOLUTION

Water scarcity:

- **Lack of water**
- **Poor sanitation**
- **Diseases**

Water reutilization to:

- **Flush the toilet**
- **Irrigate the garden**
- **Wash cars**

Source: <https://greensutra.in/tag/tips-to-save-water/>

MAP OF THE PRESENTATION

1

**ANALYSIS OF WATER
CRISIS**

2

TYPES OF FILTERS

3

SYSTEMS APPLICATION



ANALYSIS OF THE WATER CRISIS

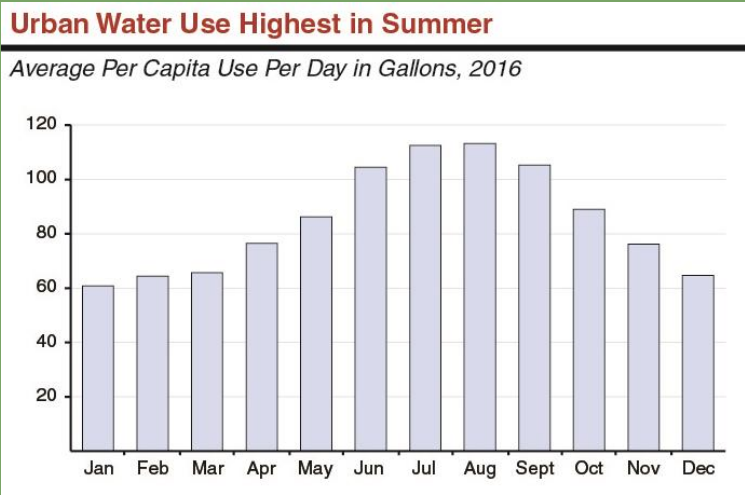
MELBOURNE



SYDNEY



CALIFORNIA

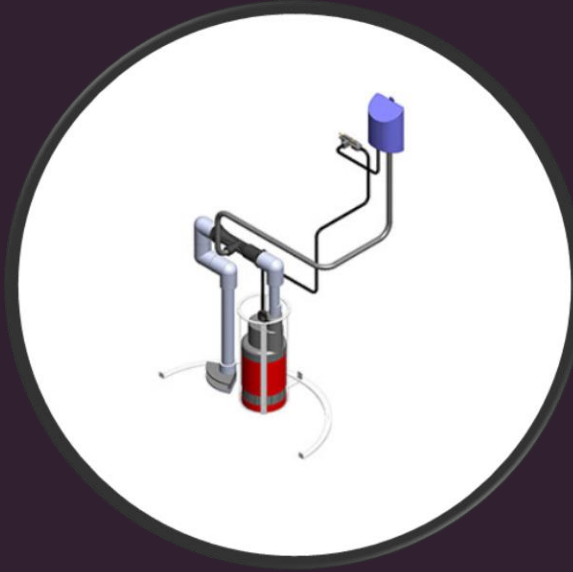


A POSSIBLE SOLUTION...

TYPES OF FILTERS



Ozone filter



Ultraviolet filter



Physical filter



Sand filter

ADVANTAGES AND DISADVANTAGES



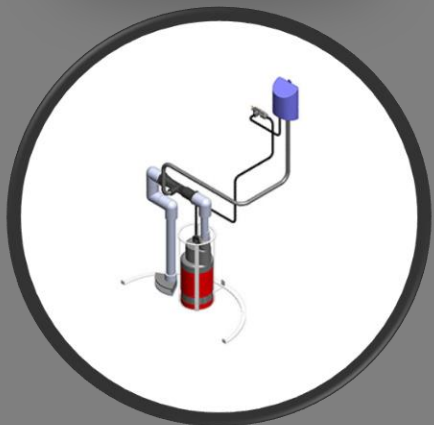
Ozone filter

- + Advanced system
- + High preservation capacity
- High electrical demand
- High corrosion on materials



Physical filter

- + Conventional system
- + Retention of small particles
- + High storage capacity
- Lots of space occupied



Ultraviolet filter

- + Advanced system
- + Correct bacteria control
- Low efficiency with suspended solids
- High cost



Sand filter

- + Simple system
- + Low cost
- + Little space used
- Low efficiency

SYSTEMS' APPLICATION AND COMPARATIVE ANALYSIS

Existing houses



New Houses



CONCLUSION



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A pair of hands is shown from a top-down perspective, gently cupping a small, vibrant green seedling with three leaves. The hands are positioned over a surface of parched, cracked earth, with deep, dark fissures radiating across the landscape. The lighting is warm, highlighting the texture of the soil and the skin of the hands. A semi-transparent grey rectangular box is overlaid on the center of the image, containing the text.

TANKS FOR LISTENING

LUCIO BAUDINO & LUISINA PROSS



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