

The background is a deep blue with lighter blue wavy lines representing water. In the bottom left, there is a stylized water splash in a lighter shade of blue. Scattered throughout the background are various geometric elements: small white circles, larger white circles with radiating lines (like sunbursts or bubbles), and small white dots.

# **WATER:**

## **A RESOURCE FOR EVERYONE**

# Water is everything. Without it, life cannot exist

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Water is crucial for survival, but droughts are threatening access to this essential resource, making it urgent to address the causes and impacts of water scarcity



# The Devastating Impacts of Drought

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- Leaves communities without access to clean water
- Crop failures, food shortages, and economic loss
- Disrupts biodiversity and the natural balance of the environment



# Statistics In Cyprus

- Early 1900s: Average annual rainfall was about 559 mm
- Current average annual rainfall: Around 462 mm (17% decrease)
- Expected rainfall decrease: 10-15% between 2020 and 2050



# Cyprus Solutions

- Desalination
- Dams
- Drillings
- Depositors



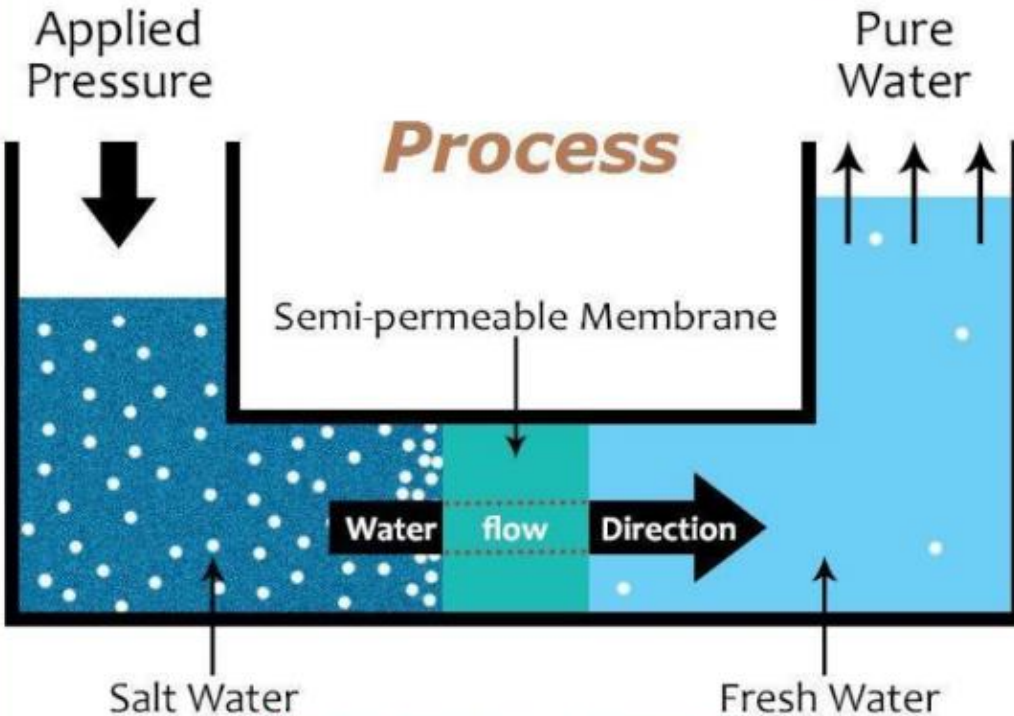
# How Desalination Works:

Desalination involves 2 main processes:

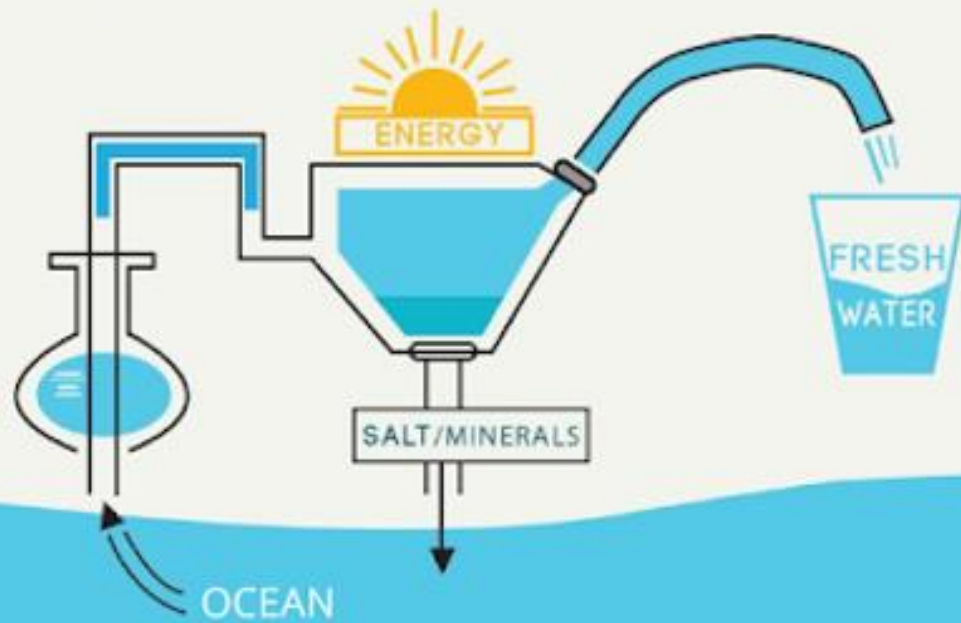
- Reverse osmosis (RO)
- Distillation



# Reverse Osmosis Desalination



<http://reverseosmosissystemexpert.com>





# Desalination Plants

- Larnaca Desalination Plant
- Limassol Desalination Plant
- Paphos Desalination Plant



# What are dams?

Dams are large structures built across rivers to store and control water

- They are used for water supply, irrigation, flood control, and sometimes generating electricity

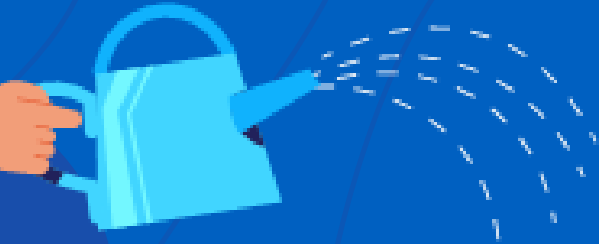


# Benefits of dams:

- Store large amounts of water
- Provide steady drinking water supply to cities
- Generate electricity through hydropower
- Essential for daily life and agricultural productivity



# What is water drilling?



Water drilling involves creating boreholes in the ground to extract groundwater from aquifers. These boreholes are equipped with pumps to bring the water to the surface

# Why is water drilling used in Cyprus?



- Water scarcity
- Agricultural needs
- Private use



# Further Actions to Take

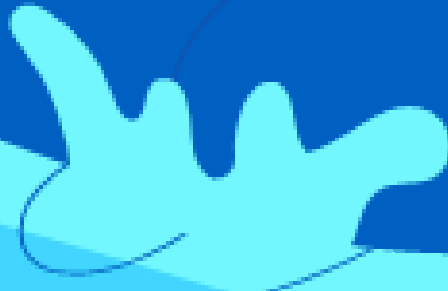
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- Water Recycling and Reuse
- Infrastructure Improvements
- Implementing Smart Water Meters
- Desalination Expansion with Renewable Energy
- Developing Decentralized Water Recycling Units



# THANK YOU!

**DO YOU HAVE ANY QUESTIONS?**



# READY TO PLAY...

- <https://create.kahoot.it/details/5ea6c79e-2059-4a86-9318-1d76aa282280>

