

# BAJA SUSTAINABLE WATER



**COMPANY DECK**

LOS CABOS, MX, MARCH 2024

**71% OF THE EARTH'S SURFACE IS COVERED BY WATER,  
YET **LESS THAN 1 % IS SUITABLE FOR HUMAN USE****

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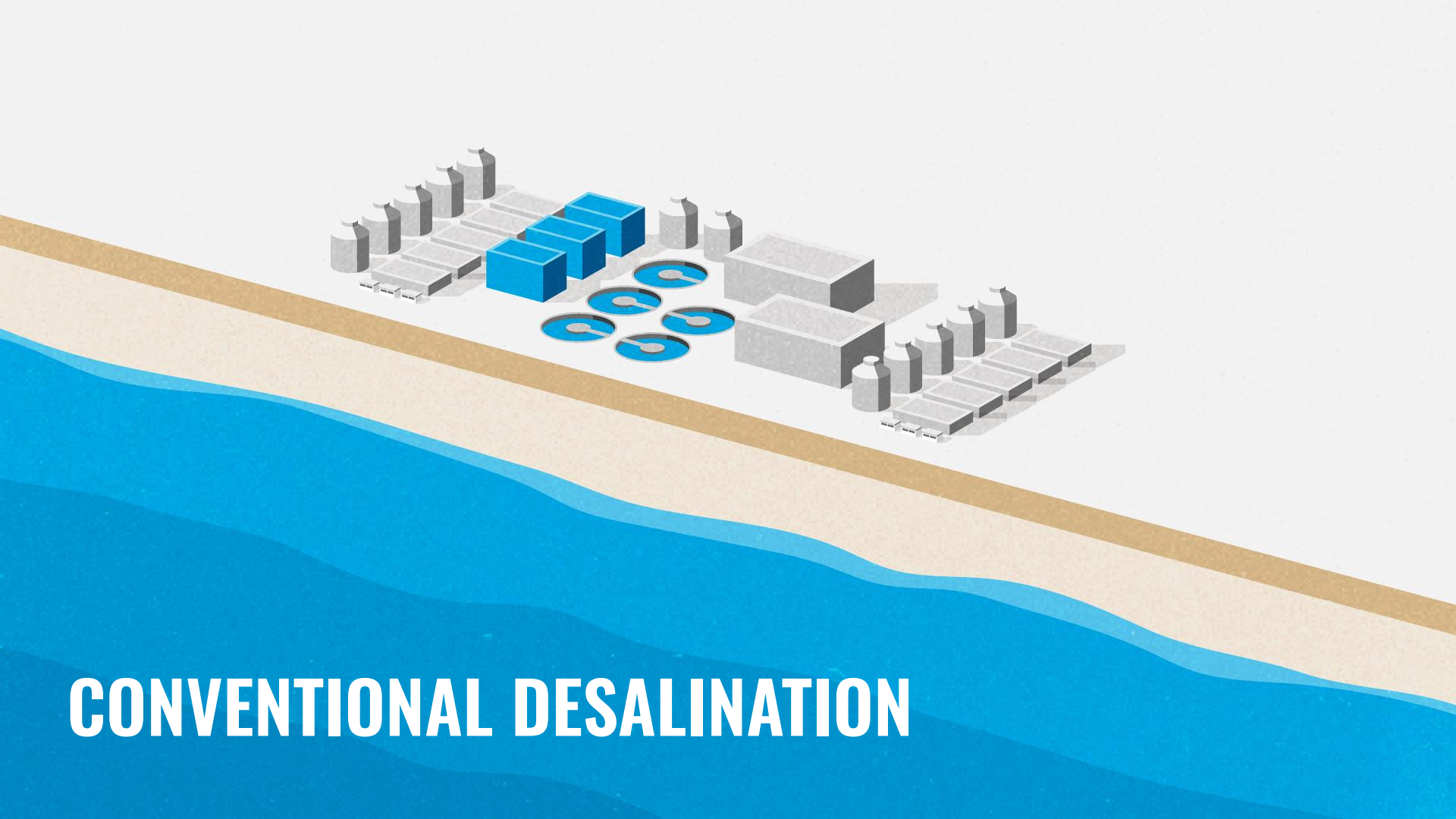
**CURRENT DESALINATION AND WASTEWATER TREATMENT  
METHODS PRESENT A VERY LIMITED SOLUTION  
TO PRODUCE CLEAN, FRESH, DRINKING WATER**

**THIS MEANS, TO THIS DAY**

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**OVER 4 BILLION PEOPLE LACK DRINKING WATER AND  
PROPER SANITATION SERVICES ESSENTIAL FOR HEALTH**

# WHY?



# CONVENTIONAL DESALINATION

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PRODUCES WASTE

RELEASES TOXIC CHEMICALS

RESULTS IN BRINE AS WASTE PRODUCT

HARMS SOIL, WILDLIFE AND MARINE ECOSYSTEMS

PRODUCES GREENHOUSE GAS EMISSIONS

# CONVENTIONAL DESALINATION

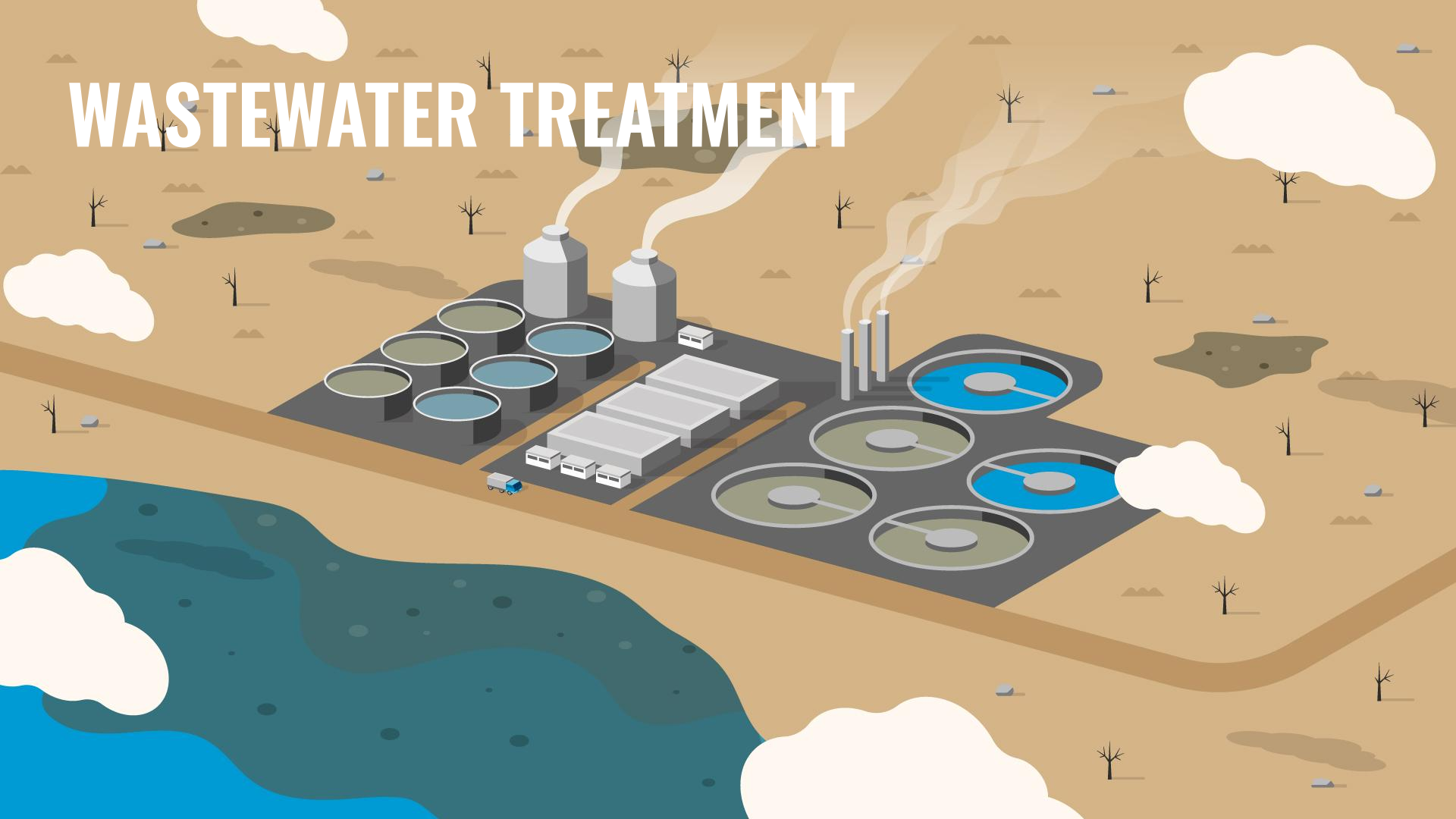
IT'S **FOSSIL FUEL** DEPENDENT

**EXPENSIVE** TO OPERATE

DEPENDS ON **CHEMICAL** CONSUMABLES

DELIVERS **POOR WATER** QUALITY

# WASTEWATER TREATMENT





# WASTEWATER TREATMENT PROBLEMS

**ACTIVATED SLUDGE AS THEIR MAIN TECHNOLOGY**

**NEED CONSTANT BACTERIA REFILLING**

**HEAVY SLUDGE PRODUCTION AND TOUGH SOLID MANAGEMENT**

**HIGH ENERGY CONSUMPTION** (about 2–3% of a developed nation's electrical power)

**NEED TRAIN AND CERTIFIED INDIVIDUALS AS OPERATORS** (30% of OPEX)

# WASTEWATER TREATMENT PROBLEMS

UNABLE TO **SELF REGULATE** (that is, susceptible to influent and seasonal changes)

COSTLY TO CONSTRUCT AND OCCUPY **SUBSTANTIAL LAND AREAS**

END UP THROWING EXCEEDING **BLACK WATERS TO THE OCEAN**

PRODUCE LARGE AMOUNT OF **METHANE EMISSIONS**

CAN'T GET RID OF CHEMICALS SUCH AS **CLARIFIERS AND CHLORINE**

# OUR COMPANY

After more than 10 years of research in water technologies, we developed **a more sustainable way to do chemical-free, brine-free, seawater treatment, and an entirely new way to do solid-free, odor-free wastewater treatment.**

With these innovations we were invited to participate in the [LIFE Programme](#) of the European Climate Infrastructure and Environment Executive Agency in 2020. In 2019 we won Third Place in the IVACE Water Accelerathon and were nominated for the Startup Europe Accelerathon. A year before, we won First Place at the Startup Europe Awards Mexico.



We are holders of two patent-pending technologies:

MX/a/2023/009851

**sustainable wastewater treatment system to produce water for human consumption through a microbial digestory media**

MX/a/2022/004081

**sustainable low-pressure seawater treatment with applied magnetism**

The product water from both of our processes is **drinking and potable water.**

**Official Mexican Standard NOM-127-SSA1-2021,  
Environmental Health: *Water for human use and consumption.  
Permissible limits of quality and treatments to which water must  
be subjected for its purification.***

Our aim is to help our clients (real estate developers, industrial companies and farmers) to achieve TRUE SUSTAINABILITY, which we believe *begins with water*.

Water from our process is recovered, cleaned and put back into the system, so **we don't waste water to produce water.**







Our vision is to provide safe, clean **potable and drinking water** to every water-scarce corner of the planet, starting by the Baja Peninsula; with the help of our latest innovation:

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Environmental Health: *Water for human use and consumption.  
Permissible limits of quality and treatments to which water must  
be subjected for its purification.***

# THE SUSTAINABLE WATER FARM



**WITH A TOTAL OF 38 SOLAR PANELS AND 20 BATTERIES FOR  
OFF-THE-GRID OPERATION, THIS 40 FT CONTAINER PRODUCES**

**60,000 L PER DAY FROM SUSTAINABLE SEAWATER TREATMENT  
50,000 L PER DAY FROM SUSTAINABLE WASTEWATER TREATMENT**

**OF DRINKING WATER, WITHOUT CHEMICALS, CONSUMABLE  
EXPENDITURE OR MAINTENANCE FEES**



## OFFERING OUR CLIENTS THE POSSIBILITY TO

- TREAT THEIR WATER IN A **CLEAN, FUSS-FREE, AFFORDABLE** WAY
- **PRODUCE FRESH WATER** TO DRINKING STANDARDS COMPLETELY OFF-GRID
- BECOME SELF-SUFFICIENT IN THEIR WATER NEEDS, REMOVING **MUNICIPAL SERVICES**
  - **SUPPLY CLEAN WATER** TO THEIR ENTIRE DEVELOPMENTS
  - PRODUCE, BRAND AND SELL THEIR OWN **DRINKING WATER**
  - **GROW ORGANIC GREENHOUSE PRODUCE** IN ARID AND REMOTE AREAS

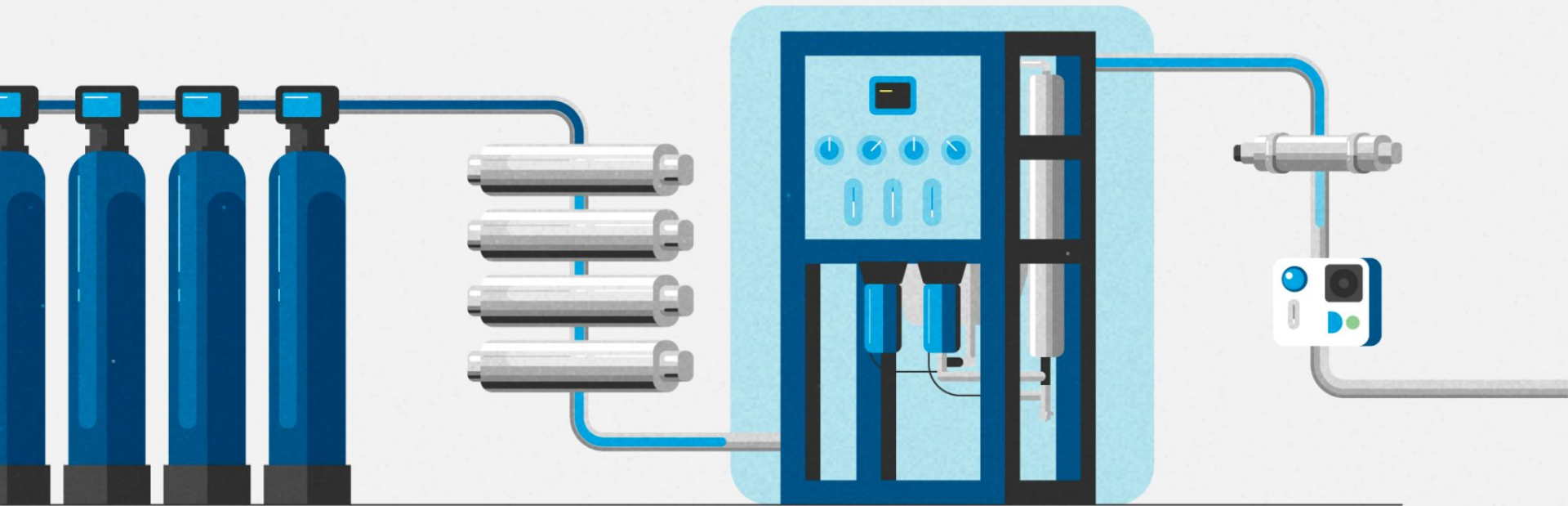


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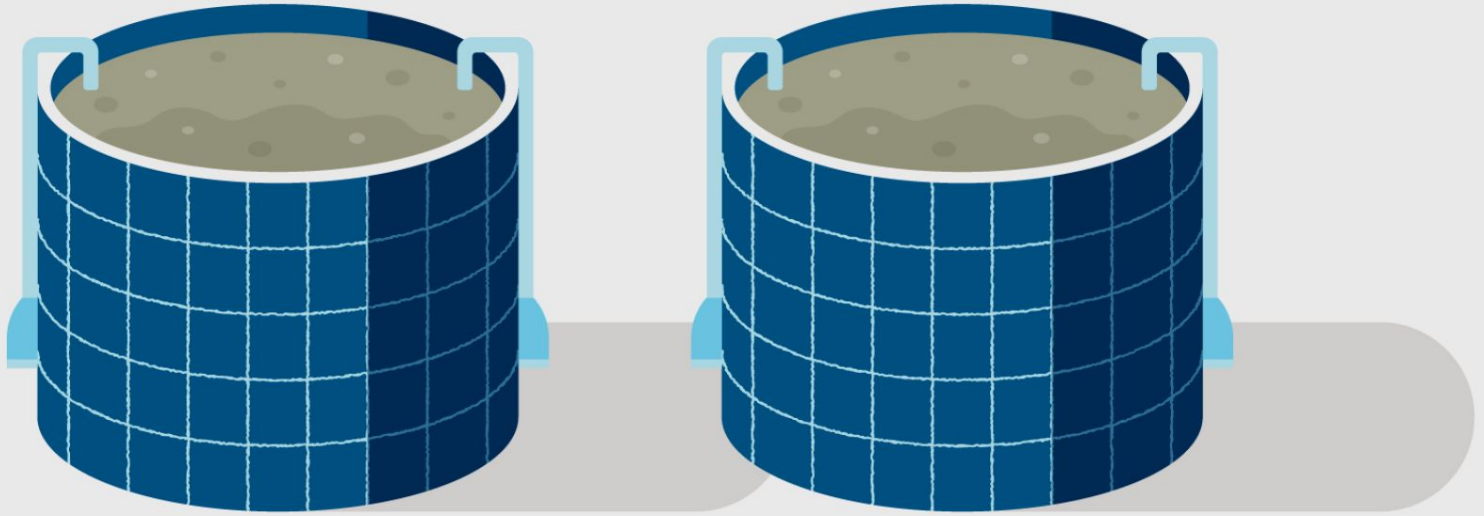
- BUILD SMALLER, MODULAR, SCALABLE WATER TREATMENT FACILITIES WITH  
**MINIMAL ENVIRONMENTAL IMPACT**
- **SAVE IN OPEX** AND ELIMINATE MONTHLY CONSUMABLE EXPENDITURE
  - ELIMINATE THE WATER TREATMENT RELATED **ELECTRICITY BILLS**
- SIMPLIFY THEIR DAILY OPERATIONS BY SUBSTITUTING SPECIALTY PERSONNEL FOR  
**COMMON MAINTENANCE WORKFORCE**
- MEET GOVERNMENT REGULATIONS IN TERMS OF **WATER QUALITY**

# HOW DOES IT WORK?



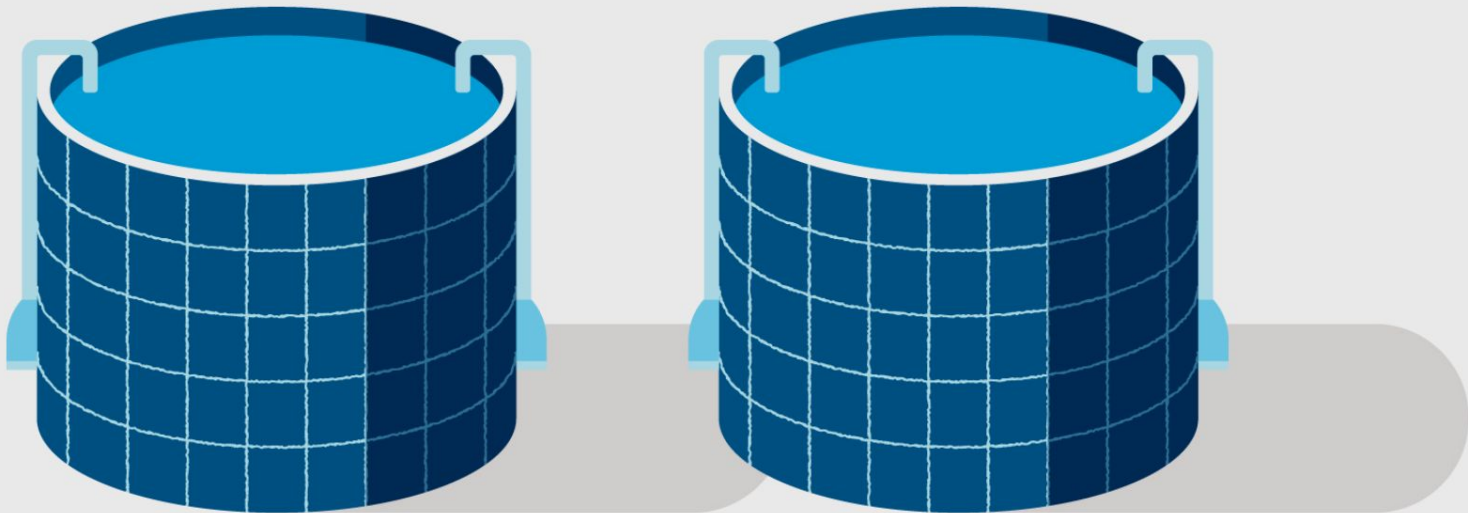


Our **sustainable seawater treatment process** pumps water from a brackish, 75-meters-deep well, strategically excavated to protect groundwater from the Santiago Aquifer. This way, the concession and permits for a brackish well are easier to process for our clients, saving time and resources in paperwork and aiding in the development of sustainable and circular communities that treat their own water and grow their own crops.



Our wastewater treatment process uses a US Green Patent A Biosafety 1 Bacteria that leaves no odors, **digests 98% of solids**, greases & oils, microplastics and greenhouse gases such as methane, ammonia and nitrogen.

Water is then treated for disinfection and purification, **brought to potable standards.**



# OUR ACHIEVEMENTS

We produce live and alkaline water, with a **PH of 7.8–8.3**

We apply **zero chemicals**

We don't do solid management, since there's **no solid to manage**

We preserve land, oceans and entire ecosystems

Our plants are modular and scalable, with **no limited production**

When plugged, we use 70% less electricity to operate

We can operate fully on solar energy

We produce water in remote, water-scarce areas

We help preserve groundwater

We help our clients achieve true sustainability













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[www.bajasustainablewater.com](http://www.bajasustainablewater.com)