

# Water.

# From scarcity to abundance.

Sid Vollebregt  
Eng. Water & Sustainable Energy





elemental  
water makers

Securing fresh water today, without limiting tomorrow

# Desalination.

Powered by renewable energy.



Sid Vollebregt  
Managing Director

# Fresh water is essential for tourism.

All-purpose use



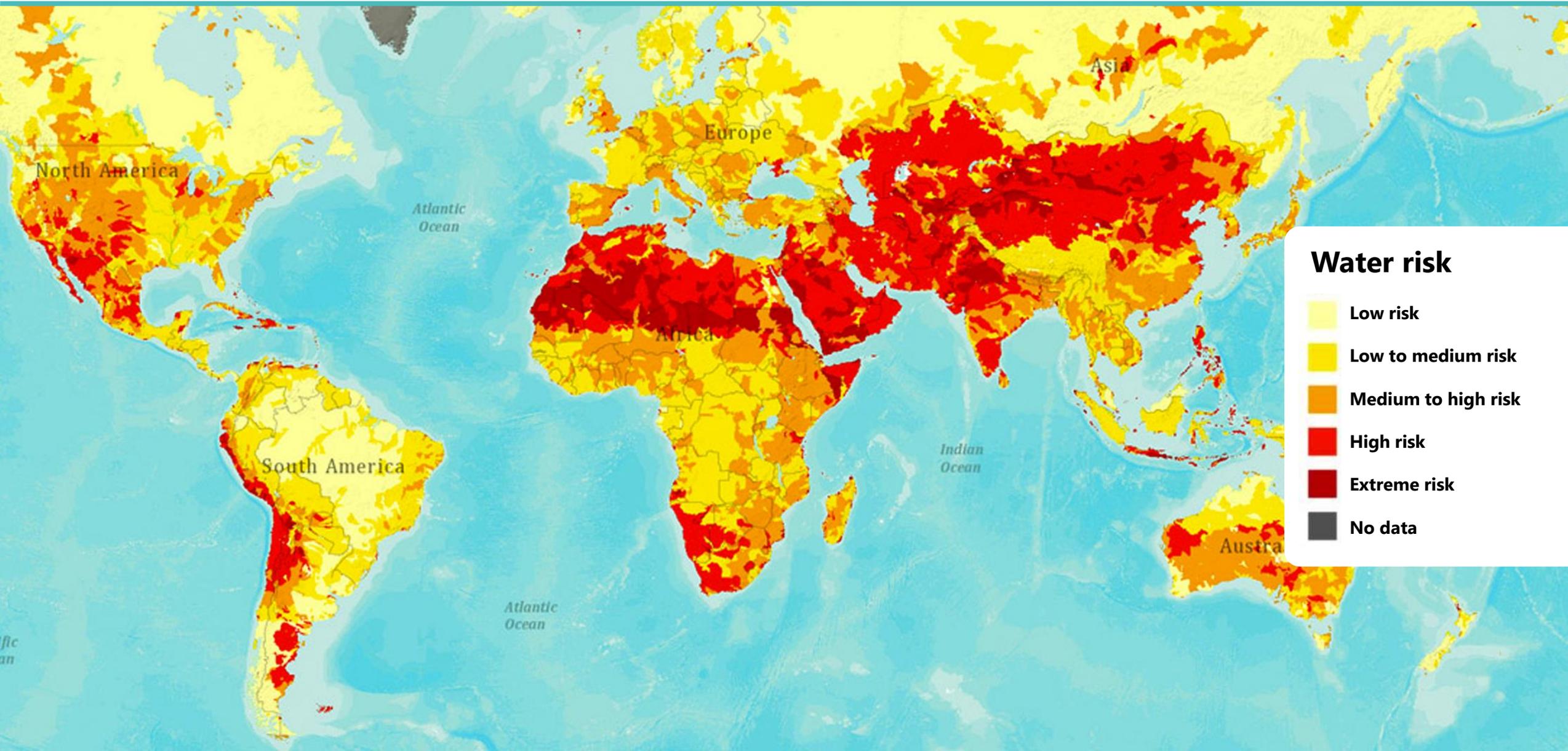
Recreation & landscaping



Operational expenditure:  
2-6 \$/m<sup>3</sup>

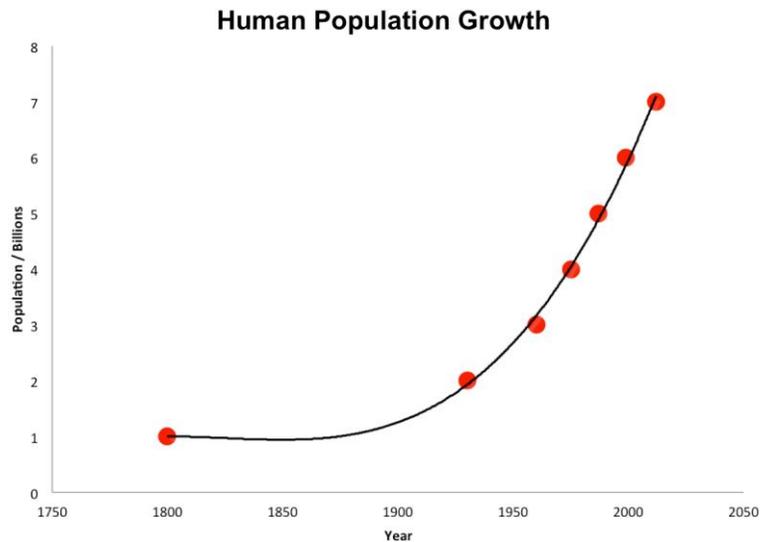


# 2/3 of the world faces water scarcity today.



# Water scarcity is increasing.

## Population growth



## Increased water footprint



## Climate change



# The alarm is roaring.

The collage features several news items:

- The New York Times:** "California Braces for Unending Drought" with a photo of a man in a suit.
- The Guardian (International edition):** "'Day zero' water crises: Spain, Morocco, India and Iraq at risk as reservoirs shrink". Subtext: "A new early warning satellite system reveals countries where shrinking reservoirs could lead to the taps completely drying up".
- National Geographic:** "Vatican turns off historic fountains amid Rome drought". Subtext: "Holy See authorities say 100 fountains will be turned off as way of 'living in solidarity' with Rome".
- National Geographic:** "Why Cape Town Is Running Out of Water, and Who's Next". Subtext: "The South African city plans to shut off the taps to 4 million people. But it's just one of around the world facing a future with too little water." By Craig Welch, PUBLISHED MARCH 5, 2018.
- The Guardian (International edition):** "Ethiopia drought: 'More trouble predicted'". Subtext: "After two failed rains and the threat from El Nino, Ethiopia is suffering its worst drought in decades. More than 10 million people need emergency aid, crops have failed and the lack of water is putting livestock at risk. Ethiopia is more prepared to deal with drought than in 1984, when hundreds of thousands of people died in the famine, but in some parts of the country, international help is still needed. Alastair Leithead reports from eastern Ethiopia. 05 Feb 2016".
- The Guardian (International edition):** "Drought is a global problem - we need a global solution". Subtext: "An international system could save lives but a recent UN climate event in New York passed without anyone putting up funding or accepting responsibility. Share your photos and stories of water scarcity".
- Most viewed section:** "Georgina Chapman: Harvey Weinstein's ex-wife breaks her silence", "US issues apology after Canadian minister told to take off turban at airport".

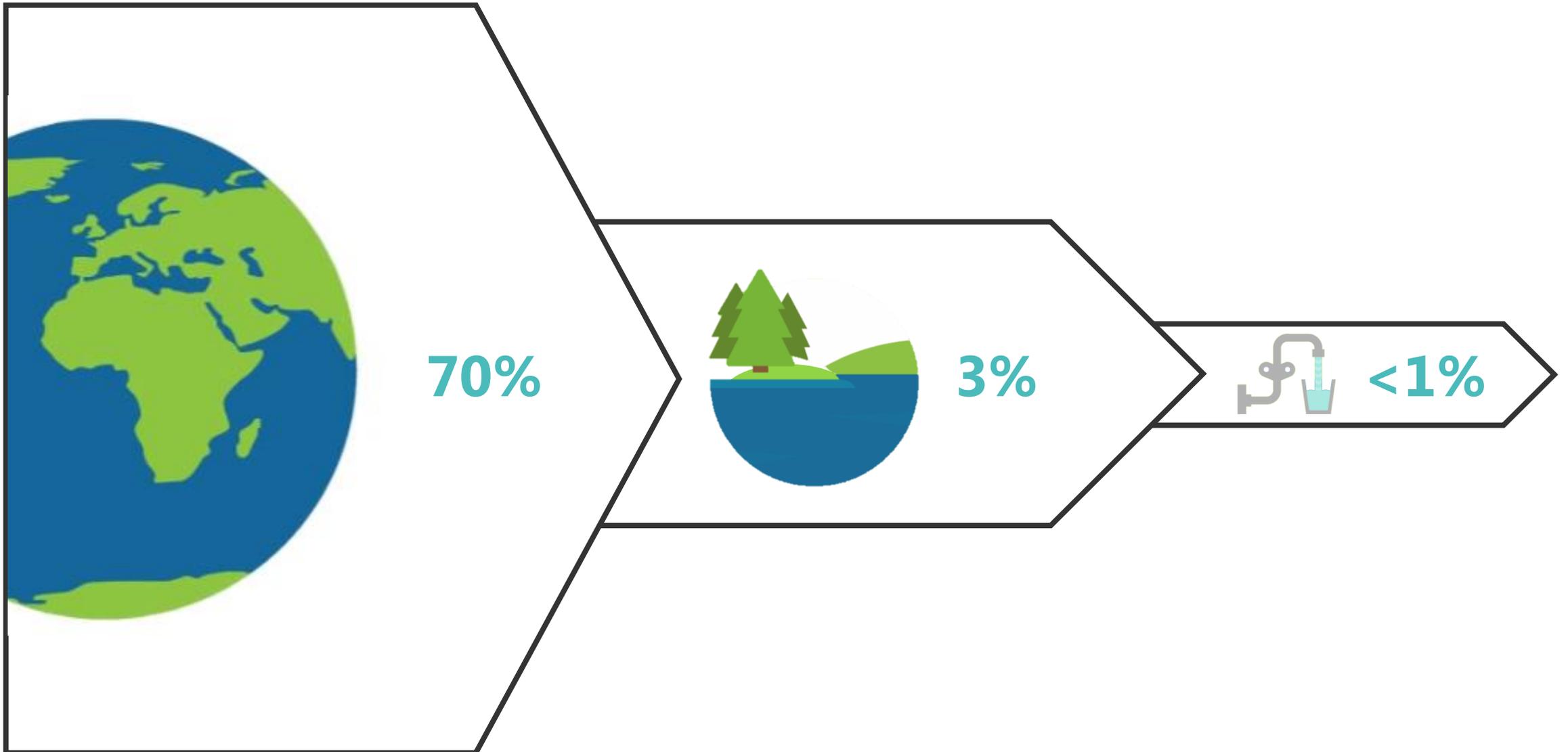
# SIDS are at the forefront of climate change.

## Small Island Developing States

58 SIDS in total



# The key to more fresh water lies in the sea.



# Desalination makes things *worse*.

## Expensive



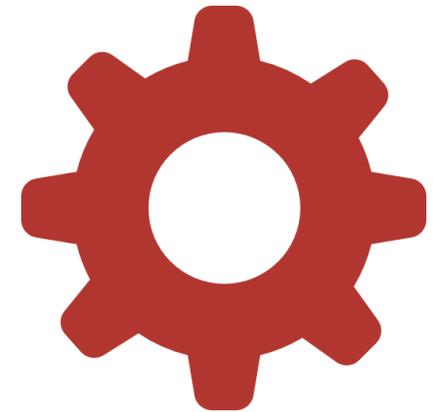
Energy-intensive,  
resulting in expensive water

## Dirty



Fossil powered,  
resulting in the climate change,  
leading to more water scarcity

## Complex



Considered high-tech,  
only feasible for large scale,  
not easy to maintain

A large, curling ocean wave is the central focus, with water splashing and creating a tunnel-like structure. The sun is high in the sky, creating a strong lens flare effect with multiple hexagonal and circular light artifacts. The sky is blue with scattered white clouds. The overall color palette is dominated by blues and whites, with a bright, high-contrast lighting scheme.

**HOW TO GET  
FRESH WATER  
WITHOUT  
LIMITING TOMORROW?**



# Reverse osmosis without the downsides.

## Affordable

## Sustainable

## Reliable

## Stress-free



Saves up to 70% on water expenses

Sustainable using unlimited resources

Independent and reliable supply

Stress-free operation and remote monitoring

# Dutch expertise. Global impact.



British Virgin Islands (I)



Lanzarote



Belize



The Philippines



Indonesia



Cape Verde



Mozambique



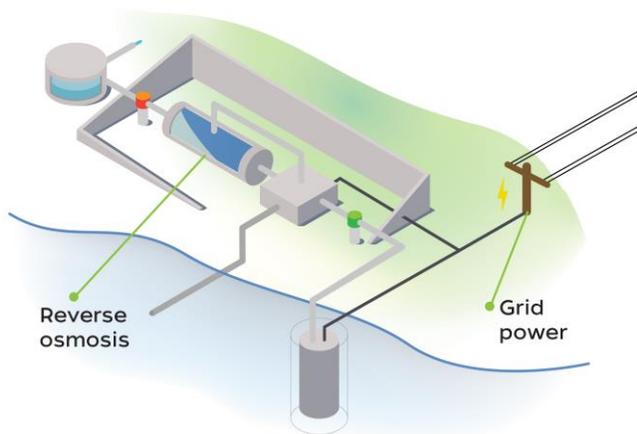
British Virgin Islands (II)



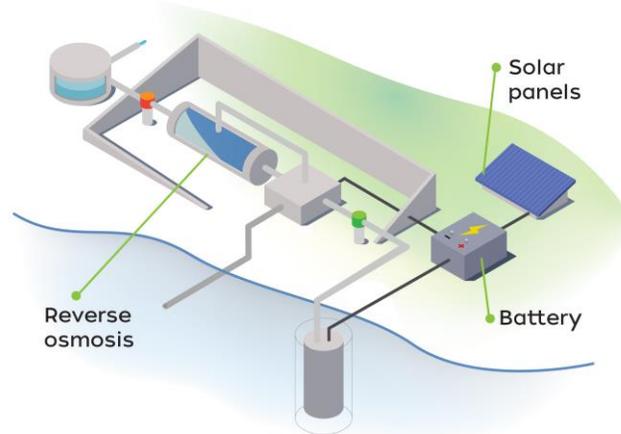
An underwater photograph of a person swimming in clear, turquoise water. The person is wearing a red swimsuit with white polka dots and is captured in a graceful, horizontal swimming posture. Sunlight filters through the water from the top, creating a shimmering effect. The overall mood is serene and emphasizes the clarity and quality of the environment.

**QUALITY  
WITHOUT  
COMPROMISE**

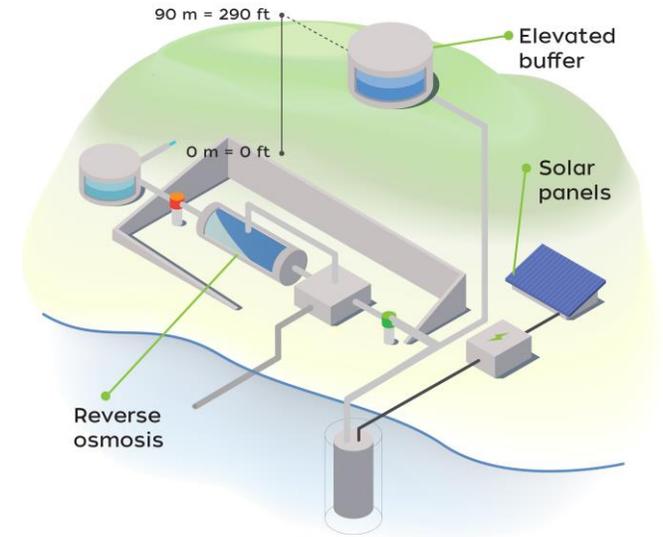
# Up to 1200 m<sup>3</sup> per day. \$1.0 /m<sup>3</sup>.



**Energy source available?**  
**Efficient water maker.**

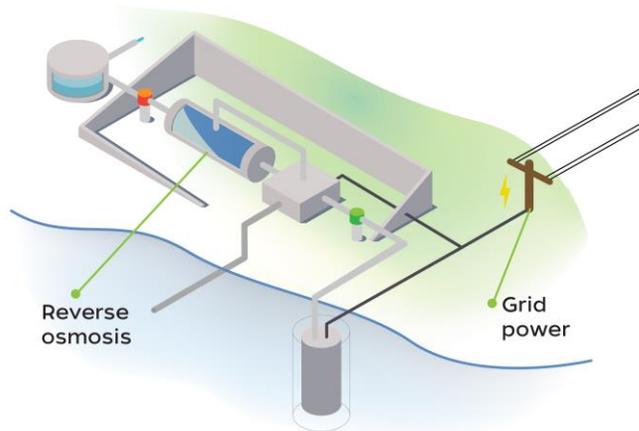


**Flat?**  
**Battery-powered solution.**



**Elevation?**  
**Let Gravity do the Work.**

# Up to 1200 m<sup>3</sup> per day. \$ 1.0 /m<sup>3</sup>.



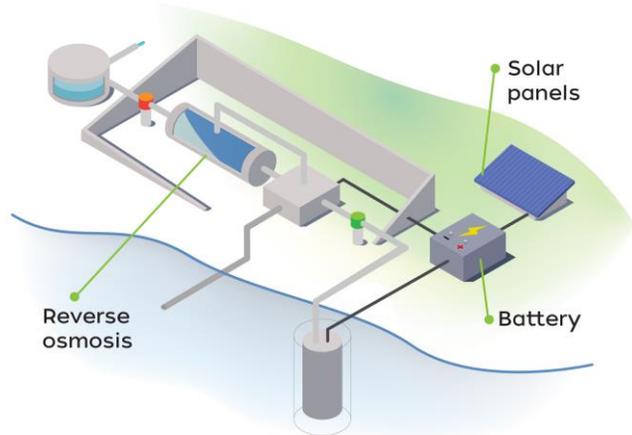
## Energy source available?

### Efficient water maker.

- Uses your energy supply
- Electric Reverse Osmosis
- Very efficient SEC: 2.2 kWh/m<sup>3</sup>
- Generators or (mini) grid
- 24/7 water production
- Compact or containerized



# Up to 1200 m<sup>3</sup> per day. \$ 1.0 /m<sup>3</sup>.



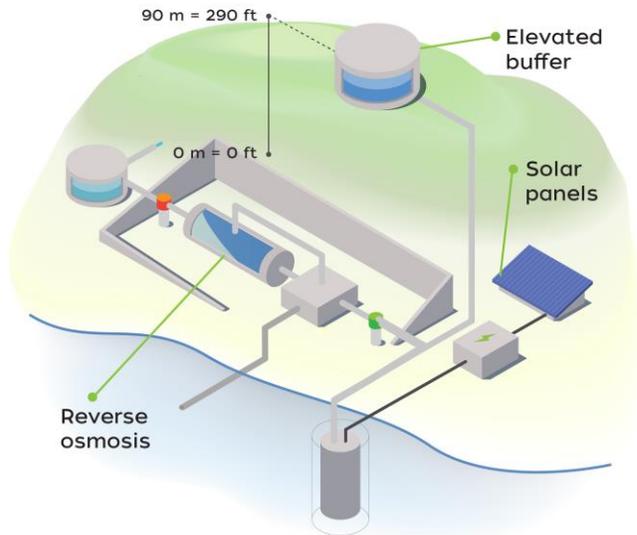
## Flat?

### Battery-powered solution.

- Uses battery storage
- Solar energy Reverse Osmosis
- No need for elevation
- Grid-tied version possible
- Water production during the day
- Containerized, plug and play



# Up to 1200 m<sup>3</sup> per day. \$ 1.0 /m<sup>3</sup>.



## Elevation?

### Let Gravity do the Work.

- Uses gravity assisted storage
- Solar energy Reverse Osmosis
- Lowest water expenses
- Makes use of natural elevation
- 24/7 water production
- Reduced brine salinity



# Virgin Islands

Private retreat using gravity-assisted

*Our family enjoys guilt-free water at low cost”*  
P.A. Serini, owner Diamond Reef Ltd.

**12 kWp**  
solar panels

**12 m<sup>3</sup>/day**  
fresh water

**63 %**  
total savings

**25 t/y**  
CO<sub>2</sub> savings



# Canary Islands

Eco Resort using their renewable energy

*'We became fresh water independent.'*  
Tila Braddock owner Lanzarote Retreats.

**12 kWh**  
energy

**4 m<sup>3</sup>/day**  
fresh water

**60 %**  
total savings

**8 t/y**  
CO<sub>2</sub> savings



# Belize

World's most private island

*'Top-notch customer support.'*  
Chris Krolow owner Gladden Island.

**18 kWh**  
energy

**9 m<sup>3</sup>/day**  
fresh water

**50 %**  
total savings

**18 t/y**  
CO<sub>2</sub> savings



# The Philippines

Water kiosk powered by solar

*"We now have affordable high-quality water"*

John Jadczyk, NXTLVL Water

**4 kWp**  
solar panels

**5 m<sup>3</sup>/day**  
fresh water

**43%**  
total savings

**11 t/y**  
CO<sub>2</sub> savings



# Cape Verde

Community water supply

**50** kWp  
solar panels

**50** m<sup>3</sup>/day  
fresh water

**80** %  
total savings

**100** t/y  
CO<sub>2</sub> savings

# Water for all.

Resorts



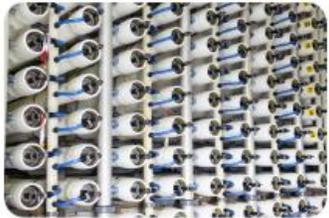
Properties



Communities



Water Utilities



Industries



Other



# A partnership to fit your needs.

## Together



If you got the talent  
on board

## Turn-key



If you want nothing  
to worry about

## Water as a service



Pay per m<sup>3</sup> for a  
long-term period

## Foundation



For developing  
countries, enabling  
financing and support

# Global recognition.

## Innovative Projects Award - Small Projects



جائزة المشاريع المبتكرة  
INNOVATIVE PROJECTS AWARD  
المشاريع الصغيرة  
SMALL PROJECTS

**1st PLACE**

Elemental Water Makers,  
The Netherlands

المركز الأول  
اليمينتال ووتر ميكرز،  
المملكة الهولندية

**LET'S SOLVE  
FRESH WATER SCARCITY  
TOGETHER**



# Join us today.

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