

### ZERO-ENERGY DESALINATION SYSTEM



#### **OUR VISION**

# MAKE THE OCEANS THE MOST SUSTAINABLE SOURCE OF DRINKING WATER FOR COASTAL REGIONS

More than 2 billion people in the world are currently LACKING ADEQUATE DRINKING WATER\* while ironically most of them live near oceans, that hold 97% OF THE WORLD'S WATER.

\*World Health Organization, 2018



We allow organizations and isolated communities to access the drinking water available within the oceans while breaking the dependency on fossil fuels for such a vital resource and preserving the environment.

# AN ALL-IN-ONE SUSTAINABLE SOLUTION THAT SOLVES WATER SCARCITY BY USING THE POWER OF THE WAVES



### Easy to Use

Thanks to its 100% mechanical components making it both easy to use and maintain.

your water storage system.

### **CO** Unlimited Supply

The buoys only have to be set in position to begin continuously producing drinking water, allowing great autonomy.

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#### **ONEKA BUOYS**

## SINGLE UNIT **SPECIFICATIONS**

**DIAMETER :** 3 m (10 ft) **DEPTH :** 10-15 m (32-50 ft)

- **1 m** (3-4 ft) waves required for energy pumping

- 0,2-1 km distance from shore

- 50-1,000 m<sup>3</sup>/day (13,000-260,000 Gal/day) of fresh water (Approx. 10m<sup>3</sup> (2600 gal)/day/buoy) Based on a typical Oneka water production project.

- 1 day of installation with 2 people. **ONEKA BUOYS** 

# **ONEKA BUOYS USE** THE WAVES AS A **UNIQUE SOURCE OF ENERGY**

The power of the waves pressurizes the seawater through reverse osmosis membranes which then produce drinking water. A small portion of the buoy's pumping energy is used to pump water on shore via an underwater pipe. The water is then redistributed locally by the user.

Scalable using a grid of buoys for virtually any output. You can then gradually convert your conventional water supply by increasing the number of units installed.

Single pipe to shore

**GET WATER ANYWHERE** 

# ONEKA CAN FULFILL WATER NEEDS FOR NUMEROUS LOCATIONS



## WHAT MAKES US DIFFERENT

- Can be used in parallel with the client's current desalination plant (possible progressive replacement).
- Hassle-free installation and maintenance, as Oneka delivers an all-inclusive turnkey service. Purely mechanical system provides greater autonomy to our clients and partners should they wish to maintain it themselves.
- New source of water to face limitations such as quotas, droughts, etc.

#### PARTNERSHIP

## PARTNER WITH US AND GET A PROJECT BUILT FOR YOUR SPECIFIC NEEDS

- 1. Identification of site and evaluation of your specific needs
- 2. Local analysis by Oneka
- 3. Proposal
- 4. Discussions, adjustments
- 5. Order & preparation of the system
- 6. Local installation by Oneka
- 7. Connection to your distribution system or storage facility
- 8. Water production & 24/7 real-time remote monitoring system



# LEARN MORE ABOUT US OR GET A QUOTE

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