The Problem

A woman in Sub-Saharan Africa walks **5-20 km each day** to collect water. And women across the world spend up to **200 million hours** every day collecting water. This prevents them from going to school or working, and puts them at risk of violence and injury.

The Opportunity

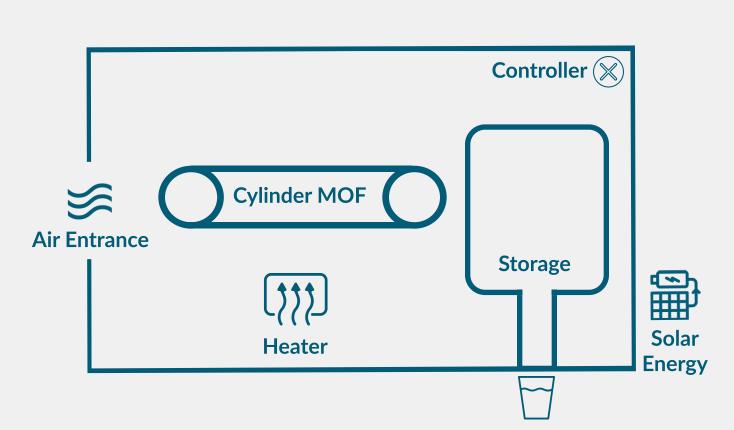
There are an estimated 13 trillion liters of water floating in the atmosphere, which is equivalent to 10% of all of the freshwater in our planet's lakes and rivers. By harvesting this water, we can provide clean and safe water, even to the driest areas of the world.

Vision

We want to create a world where women and children can achieve their full potential and have a high quality life.

How it works

Our goal is to bring an Oasis to every rural home.



2 Spiral Wound

Spiral wound-shaped metal-organic frameworks attract water molecules like a magnet and cage them as the air flows inside the device. They can generate 30L a day in the worst conditions!

3 Solar Panels - Releasing Water

After adsorbed, a change in **temperature** powered by solar panels **releases the water** from the MOFs to condense them into the storage unit.

1 Metal Organic Frameworks

Metal-organic frameworks can **adsorb** water from the air thanks to their porosity. By dipping MOF solvent to a cylinder skeleton -spiral wounds, we increase the number of exposed particles, thus the adsorption potential.

4 Drinkable Water

Harvested water can be extracted from the container using the tap and **used for drinking.** The cycle of harvesting can be repeated to produce water as needed.

Impact

In Sub-Saharan Africa alone women spend **40 billion hours** a year in collecting water, equivalent to a **year** worth of **labour** from the entire French workforce. With Oasis, we hope to alleviate that burden by bringing safe water from the air to every rural home.

Why it makes sense



Economically Feasible

by using durable materials - our device has a lifespan of 10 years or more - hence \$1 can generate more than 476L - prices we have not seen before in MOFs

4

Energy Efficient and Mobile

An Oasis device is powered by offthe-grid electricity harvested by small solar panels embedded in it and doesn't require additional energy sources.



Meets Water Needs

The average African rural household consumes 18.9L of water per day, so the daily 30L produced cover way more than needed - without having women put in labour to harvest water