

# Divine Intervention?



Pure water from thin air



PlanetsWaterGEN  
Water From Air  
for a  
Better World

This presentation is in association with  
MatthewsDaniel/PlanetsWater.

# There are...

**1.7 Million Children**

under the age of five die every year because of illness due to shortage of clean drinking water



**80% of Diseases**

are caused by poor water sanitation



**2.0 Billion People**

use a source of drinking water contaminated with feces, putting them at risk of contracting cholera, dysentery, typhoid, and polio



**50% of the World's Population**

will be living in water-stressed areas by 2025



**1 Million Plastic Bottles**

are purchased every minute.

91% of Which are not recycled



**The solution:**



# **A New Source of Drinking Water**

**PlanetsWaterGEN extracts clean drinking water directly from the humidity in the atmosphere**



# About PlanetsWaterGEN



# PlanetsWaterGEN at a Glance



A pioneering and innovative water-from-air technology



Founded in 2008



Patented technology  
The world's most energy-efficient Atmospheric water generator



Worldwide footprint:  
Clients & partnerships including: U.S.A, India, Brazil, Mexico, Australia, Vietnam, Thailand, the Philippines, CIS countries, African countries, and China



Multidisciplinary R&D team



Manufacturing facilities on 3 continents



# PlanetsWaterGEN Technology

# PlanetsWaterGEN

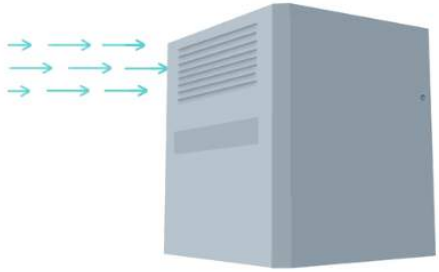
## State of the Art Technology



- Offering the world's most energy-efficient atmospheric water generator (AWG) module
- Unique patented design and non-conductive structure, making water from air a true economic reality for the first time
- Advanced algorithm allows PlanetsWaterGEN to operate in widest range of atmospheric conditions
- Using only food-grade materials

# PlanetsWaterGEN Technology - Step by Step

Step 1



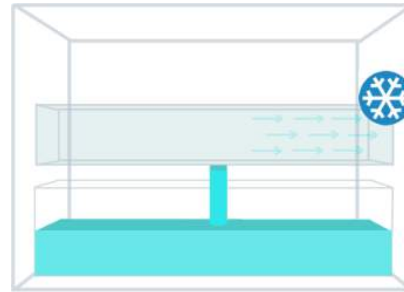
PlanetsWaterGEN built-in blower draws the air from the atmosphere into the atmospheric water generator

Step 2



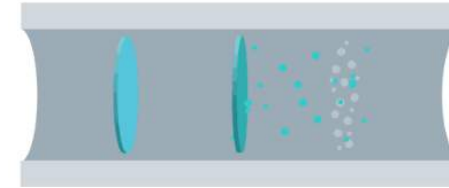
Once within the unit, an internal air filter removes dust and dirt from the air, leaving it pure and clean

Step 3



The air is then directed through the heat exchange and cooling process, and condensed into water

Step 4



The water is filtered to remove impurities and minerals are added, to give drinking-quality water

Step 5



The water is stored in a built-in reservoir, where it is continuously circulated to keep it fresh, tasty and healthy

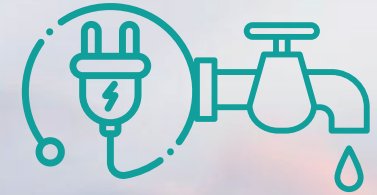
# PlanetsWaterGEN Technology – Advantages



5 times more  
water per kWh



Environmentally  
friendly



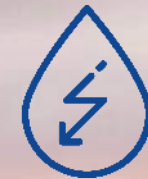
Plug & drink  
solution



Premium-quality  
drinking water



Scalable  
structure



Can operate using alternative  
energy sources

# PlanetsWaterGEN – Technology For a Better World

## Saving lives

Almost 3 ½ million people die every year because of water scarcity and hygiene-related causes– PlanetsWaterGEN can change that!



## Improving health

PlanetsWaterGEN prevents diseases related to contamination of water resources and aged/corrupted infrastructure (water pipes)

## Helping the environment

Using PlanetsWaterGEN technology reduce plastic and save water transport

## Improving children's lives and education

Children are often responsible for collecting water for their families. This takes time away from school and play. Access to safe water and sanitation will change this

## Create Economic Growth

Access to safe water at home gives families more time to pursue education and work opportunities, reduces health expenses and helps break the cycle of poverty

# Our Products – Quick Overview

## PlanetsWaterGEN 5000L



5000 ltrs / 1,321 gallons  
(per day)

Perfect for villages,  
Off-grid settlements and  
factories. Units can be  
integrated into AWS  
farms.

## PlanetsWaterGEN 500L



500 ltrs / 132 gallons  
(per day)

Give your school,  
hospital, commercial  
center or residential  
building its very own on-  
site renewable water  
source.

## PlanetsWaterGEN Industrial AWG



Upto 10000l/2,642 gallons  
(per day)

Securely transport our  
AWG unit, with an  
emergency relief  
vehicle. The quickest and  
easiest water supply  
solution.



30ltrs/8 gallons  
(per day)

Fresh, cool water on tap.  
No plumbing, refills or  
infrastructure required –  
simply plug in your home  
or office and start drinking.  
Touch-screen display.

# PlanetsWaterGEN Large Scale

Industrial renewable source of drinking water for cities villages, factories, and areas where clean water is not accessible



Water generation capacity: Up to 5,000 ltr/day



Power: 3 phase 380V / 50Hz



Water purification technology: Sediment filtration, mineralization, activated carbon, microbiological treatment



Power consumption: ~60kW/h



Dimensions (LxWxH): 5.65m x 2.20m x 2.13m



Air Filtration: Multimedia air filtration cascade



Weight: 3900kg



# PlanetsWaterGEN AWG



Fast and easy deployment in most weather conditions



Perfect for remote areas and difficult to access locations



Ideal for long term sustainable water generation throughout all phases of emergency and crisis response



Storage for emergency medical supplies and provisions



Installed DC Outlets with battery charging capacity for communication devices



Caterpillar 18KVA Diesel Generator



Available add-ons:  
1000-1500L water reservoir;  
500L fuel tank for week long operation; Emergency Lighting;  
Custom logo or paint, WiFi

Home and office appliance –  
fresh and healthy water on tap.  
No plumbing, refills or  
infrastructure required



Water generation  
capacity: Up to 30  
ltrs/day



Integrated dispenser:  
Cold and hot water



Internal water tank:  
12.5 ltr



Water purification technology:  
Sediment filtration,  
mineralization, activated  
carbon, microbiological  
treatment



Air Filtration:  
Multimedia air filtration  
cascade



Power:  
110/220 VAC, 60/50Hz



Power consumption: 0.5 kW  
(During water boiling: 1.8 kW)



Dimensions (LxWxH):  
49cm x 47cm x 116cm



Weight: 49kg

# Applications



# Full Water Supply / Backup Water Supply

PlanetsWaterGEN provides an alternative and continuous source of drinking water supply to places where clean water is not available



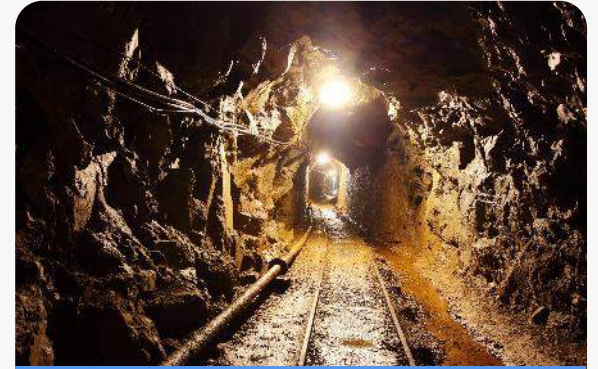
Schools/Universities



Hospitals



Commercial centers



Mines



Rural villages



Residential buildings



Offshore



City centers

# Water Dispenser - AWG

Perfect solution for fresh and healthy drinking water.

Cost effective and environmentally friendly alternative to bottled water



Home



Office



Restaurants / Hotels

# Transportation

Integrated atmospheric water generator in a vehicle

Providing the driver and passengers with cool and fresh water on-the-go.



Private cars



Trucks



Public transportation



Train

# Water Supply on Demand

PlanetsWaterGEN provides an ideal solution for short or long term sustainable water generation, whenever and wherever it is needed



Army camps



Natural disasters



Events



# Case Studies

# Uzbekistan, May. 2019

AWG provides water from air to an Orphanage in Bukhara



- Uzbekistan is a country in desperate need of a secure water supply as it is "double landlocked," and Bukhara in particular has recently been experiencing serious water shortage
- Kyrgyzstan and Tajikistan have, in recent years, insisted on making hydro-power dams at the headwaters for the two main rivers bringing freshwater supply into Uzbekistan, Amu Darya and Syr Darya. The dams undermined Uzbekistan's ability to use both rivers as sources for freshwater
- AWG provides clean fresh drinking water created from the AWG to hundreds of children and staff living in an orphanage in Uzbekistan's city of Bukhara.



# Costa Rica , May 2019

AWG provides water from air to a school in Costa Rica



- The Costa Rican Institute of Aqueducts and Sewers (AyA) referred to the lack of water that affects some communities in the Greater Metropolitan Area (GAM) and the rest of the country.
- The shortage condition is associated with the lack of rain causing series drought due to the El Niño phenomenon.
- AWG installed in the International Christian School located in San Miguel de Santo Domingo. It is the first school in Central America and the second in Latin America providing children with fresh drinking water from air.

# Chile, April 2019

AWG provides water from air to the school in Chile



- About 30% of the water extracted in Chile is underutilized and many sources are polluted and unusable
- The country's economy is largely based on mines that require a considerable amount of water for their operation. The water is first pumped to the mines where it is used and polluted, and the contaminated water is then distributed to the rest of Chile.
- AWG in an elementary school in Curepto, Chile.



# Sierra Leone, Mar. 2019

AWG provides water from air to a girls school in Sierra Leone, West Africa



## Water crisis – Sierra Leone\*

- The average life expectancy for a Sierra Leonean is only 56 years. One of the lowest in the world. Infections and parasites, most found in contaminated water, is the largest cause of death in Sierra Leone
- Almost half of the population is not using a regulated water source for drinking. Most of the unsafe drinking sources are freestanding water, such as ponds, and unregulated wells
- St. Joseph's girls school in Freeport, providing school girls and staff with safe-drinking water.

# Ly Thai To City Square, Hanoi, Vietnam, Nov. 2018

A fundamental lifeline of drinking water to the people of Hanoi



## Water crisis Vietnam

- Only 39% of the rural population in Vietnam has access to safe water and sanitation
- In the Northern region of Vietnam around Hanoi, there is evidence of arsenic contamination in the drinking water
- Almost 80% of the diseases in Vietnam are caused by polluted water
- The city of Hanoi, Vietnam.

November 2018



# Humanitarian and Disaster Relief, Kerala India, 2018

After Devastation From Monsoons Water From The Air,  
in Kerala India



## Floods in Kerala\*

- Floods in the southern Indian state of Kerala killed more than 410 people, the worst flooding in 100 years
- More than 1 million people were left homeless in the 3,200 emergency relief camps set up in the area
- Maintaining sanitation and preventing disease in relief camps housing more than 800,000 people was a significant challenge
- Alappuzha and Pathanamthitta districts of Kerala.

# Humanitarian and Disaster Relief Aid, USA, 2017-2018

Red Cross and FEMA to provide vital relief to communities hit by hurricanes Harvey, Irma, and Michael



## Hurricanes in the USA

- 2017-2018 has been marked by hurricanes of record ferocity, damage and death tolls in the thousands
- Hurricanes aftermath: Hundreds of thousands of people are left without drinking water after floods disable the water systems.
- Hurricane aftermath: Whether water supplies are destroyed by high winds or overrun by contaminants, a compromised water supply is a matter of life and death
- Continuously working with the American Red Cross and FEMA in the US by providing clean and safe drinking water in the aftermath of Hurricanes Hervey, Irma and Michael



2017-2018



# Connaught Place, New Delhi, India, Aug. 2017

AWG providing fresh drinking water to 2,000 people every day



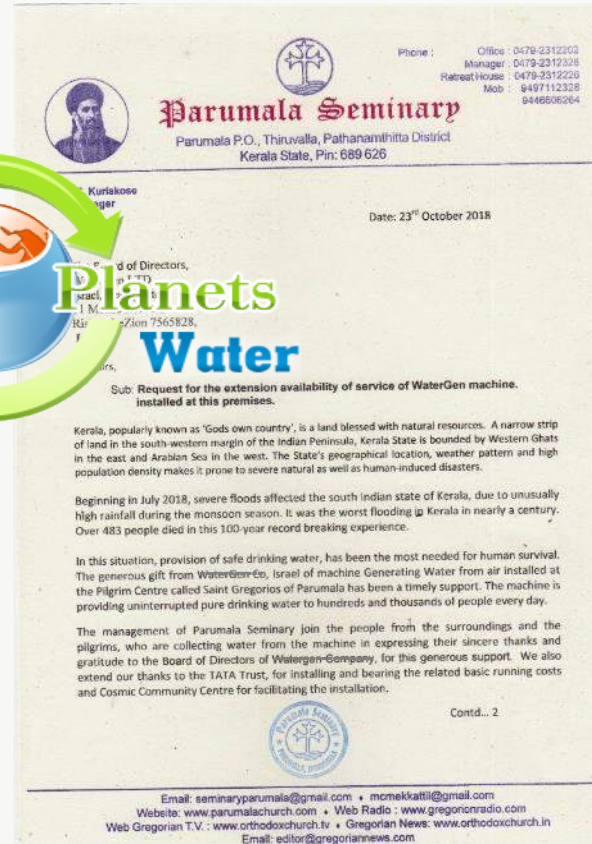
## Water crisis India\*

- There is not a single Indian city that can provide potable water from its taps
- India is at the top of the list of countries with the worst access to clean water close to homes
- 40% of the India's city water is lost due to pipe leaks and thefts via unauthorised connections
- Providing water to tens of thousands of people in New Delhi, and presented Prime Minister Modi with a detailed work plan that can solve the water crisis in India in a very short period

August 2017



# Humanitarian and Disaster Relief Aid, Parumala Seminary Kerala India, 2018 - 2019



- Following the seminary's manager special request, an AWG is still operating in Kerala, providing clean drinking water to the staff and visitors of the seminary



# PlanetsWaterGEN



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