Case Study

Watergen devices incorporated into Cambodian's National Health Structure

Watergen devices were provided to Cambodian hospitals, Red Cross and first response organizations

Despite being one of the fastest-growing economies in Asia, Cambodia has a severe water and sanitation crisis. 77% of Cambodia's 16 million people live in rural areas. 3 million of them lack access to safe water altogether, and 6 million lack access to improved sanitation. The Cambodian government is determined to change these dismal numbers and has embarked on an aggressive turnaround policy. By 2025, it hopes to be able to provide improved water conditions to 100% of its population, and Watergen is proud to be part of this important goal.

In July 2020, a GEN-M Atmospheric Water Generator was handed over to the Calmette Hospital in Phnom Phen, thanks to a donation by the Prime Minister and First Lady of Cambodia, Bun Rany Hun Sen, chairperson of the country's Red Cross.

In September 2020, Kantha Bopha Hospital (KBH), Cambodia's largest public children's hospital, which provides free health care services to local children, was handed a Watergen GEN-M by Minister Chantol Sun. Both hospitals are now able to provide up to 800 liters of pure, clean, and fresh drinking water to staff and patients every day.

In August 2020, the First Lady handed over Watergen's GEN-M truck and generator to the Red Cross, enabling rescue teams to bring fresh, clean water to sites of major emergencies and natural disasters. The customized heavy-duty trucks can securely transport 800-liter-capacity GEN-M units through any type of terrain, to provide drinking water directly to people when they need it most.

Plans are already in the pipeline to donate additional units of GEN-M AWGs to more hospitals and the Red Cross.

Watergen

Case Study

Watergen provides water from air solutions to Uzbekistan

Bukhara, Samarkand and Tashkent cities use Watergen's solution to help solve its water crisis

The “double-landlocked” and semi-arid conditions of Uzbekistan, combined with very few internal freshwater resources leave the country in desperate need of a secure water supply. In recent years, neighboring countries such as Tajikistan, have built hydro-power dams at the headwaters of the two main rivers that traditionally bring freshwater supply to Uzbekistan, the Syr Darya and the Amu Darya. While these dams provide a solution for the neighbors’ water problems, it undermines Uzbekistan’s ability to use these rivers as sources for freshwater supply.

Like many cities, Bukhara has been experiencing a serious water shortage. In May 2019, Watergen’s GEN-M atmospheric water generators began supplying fresh drinking water created from air to hundreds of children and staff living in an orphanage in the city. This was a truly ground-breaking solution for the institution and ensured unlimited access to one of their most basic needs – fresh, clean drinking water.

In November of the same year, the country’s government signed a Memorandum of Understanding with Watergen to harness pure, clean drinking water out of ambient air. There are plans to dispatch thousands of GEN-M AWGs to towns and cities in the country, including Samarkand and Bukhara.

In June 2020, Watergen’s Uzbekistan team completed the installation of a GEN-M AWG in the Innovation Center of Tashkent National University of Uzbekistan so that staff and students can enjoy drinking water extracted directly from thin air.

Case Study

Watergen helps Gaza deal with its growing water problem

Three water from air units were installed in Gaza health care organizations

The Gaza Strip's main source of water is the Coastal Aquifer, where groundwater is stored for domestic, industrial, and agricultural use. The aquifer is currently pumped three times beyond its sustainable yield, rainwater cannot seep properly into the ground due to urbanization, saline water is infiltrating the aquifer and the water supply pipes are not adequately sealed. A 2015 WHO report showed that 96.4% of the water produced for the area is unfit for human use.

In line with the views of Watergen's president, Dr. Michael Mirilashvili that "we must be kind to our neighbors, even helping them before we help others around the world", Watergen has made several donations of AWG products to Gaza, in cooperation with other generous groups and entities.

The first installation of a water-from-air device was made in February 2020, when the 780-kg GEN-M, with a capacity to provide as much as 800 liters of clean water per day, was delivered to the Gazan neighborhood of Abasan al-Kabira. The pilot project – a result of efforts between Israel's Arava Institute for Environmental Studies and the Palestinian NGO Damour for Community Development – ensured the delivery of fresh drinking water to the municipal building,

In May 2020, Watergen installed a water-from-air device in Al-Rantisi pediatric hospital in Gaza. This project was the direct result of a collaboration between Watergen and the water and power Palestinian company, Mayet Al Ahel. The hospital staff and patients were given access to clean and safe off-grid drinking water.

The third installation was made in August 2020, when a GEN-L device was shipped by Watergen to the second largest hospital in Gaza, the Nasser Medical Center in Khan Younis. Up until then, the hospital was forced to truck in drinking water from external sources. The AWG now produces 5,000 liters of precious fresh, unpolluted drinking water for hospital staff and patients every day. Since Gaza also suffers from an on-going electrical crisis, solar panels were installed on the AWG to remove its dependence on electrical power.

Watergen will continue to work with its neighbors in the Middle East to try and better the lives of the local populations.

Case Study

Watergen brings water from air solution to Costa Rican school

Watergen installed a GEN-M in an International School located in Santo Domingo

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.

Watergen installed GEN-M 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.

Case Study

Watergen provides water from air solution to Chilean school

Watergen Installed a GEN-M unit in an Elementary School located in Curepto

Chile's economy is largely based on mines that require a substantial proportion of the country's total available water resources for their operation, leaving only the balance available for the rest of the country's consumption. As a result, the population suffers in terms of both quantity and quality of domestic water.

The medium scale AWG, GEN-M is installed in an elementary school in Curepto, Chile

The Chilean government turned to Watergen to find a solution for fresh drinking water and in April 2019, Watergen's medium capacity water-from-air generator, the GEN-M, was installed in a school located in Curepto.

The GEN-M generates up to 800 liters of fresh, clean cold or ambient water for the school every single day, requiring no infrastructure other than an electricity supply.

Case Study

Watergen provides drinking water from air to Sierra Leone kids

Watergen installed a GEN-M unit in a girls school in West Africa

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.

A GEN-M was placed in St. Joseph's girls school in Freeport, providing school girls and staff with safe-drinking water.

Case Study

Watergen works with American Red Cross and FEMA in United States

Watergen provides vital relief to communities hit by Hurricanes Harvey, Irma, and Michael

The years 2017-2018 were marked by hurricanes of record ferocity, causing insurmountable damage and the death of thousands in the US.

The hurricanes left hundreds of thousands of people without drinking water after floods disabled the existing water systems and infrastructure.

Due to Watergen's continued collaboration with the American Red Cross and the Federal Emergency Management Agency (FEMA), the company sent GEN-L and GEN-M machines to assist residents of hard-hit areas, such as Texas and Florida.

Whether water supplies are destroyed by high winds or overrun by contaminants, a compromised water supply is a matter of life and death.

Watergen's products provided clean and safe drinking water to those areas where there was a critical shortage, and thus saved the lives of many.

Case Study

Watergen provides drinking water from air to residents in India

New Delhi and Kerala use Watergen's solution to help solve its water crisis

India is high on the list of countries that fail to meet its population's demand for access to clean water close to homes. There is not a single Indian city that can fully meet the requirements for potable water from its taps for this nation of 1.3 billion people. As much as 40% of city water is lost due to pipe leaks and theft via unauthorized connections. When irrigation wells dry up, farmers need to use untreated wastewater, laced with industrial chemicals and human sewerage, to grow their crops.

In a pilot project, to coincide with Israeli PM Binyamin Netanyahu's historic visit to India, Watergen provided water to tens of thousands of people in New Delhi over a period of one month. On average, 2,000 people had access to clean, fresh, unpolluted water every single day, from a unit that was placed at Connaught Place, at the entrance to the Charkha Musuem.

Watergen then presented Prime Minister Modi with a work-plan that could potentially solve the water crisis in India, bypassing problems such as failed infrastructure high levels of air pollution.

In 2018, the worst floods experienced in a century hit the southern Indian state of Kerala, leaving nearly 500 people dead and over 1 million homeless. 3,200 emergency relief camps, housing over 800,000 people, were set up in the area. It goes without saying that maintaining sanitation and preventing disease proved to be a significant challenge.

Watergen and TATA Trusts stepped in to help with the relief efforts, and two GEN-M units were installed in the region – one in Alappuzha, and the other in the Christian seminary village of Parumala in the Pathanamthitta district.

The units helped provide pure drinking water to thousands of residents every day.

Following a special request by the seminary manager, Father MC Kariakose, GEN-M continues to operate in Kerala, providing fresh, clean water for staff and visitors until today.

Case Study

Watergen gives Vietnamese capital taste of water from air

Watergen provides a fundamental lifeline of drinking water to the people of Hanoi

Only 39% of the rural population in Vietnam has access to safe water and sanitation and almost 80% of the diseases in the country are caused by polluted water. Vietnam – a country of some 96 million people – has long suffered from a shortage of safe drinking water for its citizens, due to a lack of suitable infrastructure, water pollution, and financial resources.

In 2018, to celebrate 25 years of diplomatic relations between Israel and Vietnam, Watergen's products were displayed at an exhibition at Hanoi's Ly Thai To Square. Watergen ceremoniously gifted the people of the city with a GEN-350 atmospheric water generator.

80% of the Hanoi's water supply comes from ammonia-tainted underwater reservoirs, and there is a desperate need for fresh, clean, and unpolluted water.

The transportable GEN-M can be installed anywhere and can produce up to 800 liters of water per day to assist people in locations where drinkable water is not easily accessible.

Watergen