



CARIBBEAN  
WATER TECHNOLOGIES

University of the  
Virgin Islands,  
Caribbean Green  
Technology Center

Caribbean Water technologies

Nimon **BONDURANT**

World Water day 3.22.21



- **CARIPUR H2O OUR FLAGSHIP PRODUCT**

- Was created out of necessity. Rainwater is captured throughout the world and is one of the purest forms of water, but it is unsafe to drink once it fills up the catchment (cistern) that holds it, because of bacteria growth.
- Clean water is one of the world's leading problems affecting as many as 2 billion people world wide . Water problems are a life and death issue that must be addressed timely.
- Caripur H2O was invented to remove living organisms like bacteria, viruses, parasites, cysts. Chemicals such as chlorine, Trace Pharmaceuticals, as well as PFAS the “forever chemical” and heavy metals such as lead, chromium VI, Silica and Bromine.
- Caripur H2O uses Very Low Energy usage, (34 Watts daily). Can run on Solar, A/C or DC, during a power loss.
- Caripur can purify one cubic meter (264 gallons) of water for approx. \$0.10



- Caripur uses almost no energy. Operating as a intelligent inline filter, our technology only “turns –on” once every 2 -3 days to purge itself clean for 30 seconds using approximately 40 watts.
- Caripur has a solar rechargeable lithium ion battery and internal backup pumps, which will kick-in, automatically in the event of a power failure and provide hundreds of gallons of water on a single charge.
- In the event of a long term power outage, Solar panels can be attached for daylight operation as well as recharging the battery for night time operation.
- An electrical generator connected and will power the unit if you require much more water than the batter provides at night.



POWER USAGE OVER TIME

TRENDED WATER USAGE



MONTHLY CISTERN LEVELS



## SOPHISTICATED MONITORING AND INTELLIGENCE SOLUTIONS

Sophisticated monitoring and intelligence capabilities are built directly into every Caripur system. One of the first design principles for the Caripur system was to ensure it delivers significant improvements over existing technology.

Caripur monitors hydrologic and atmospheric events and forces acting on it so that we can build it better, based on how it operates in each environment



## PRODUCT REPORTING AND INTELLIGENCE

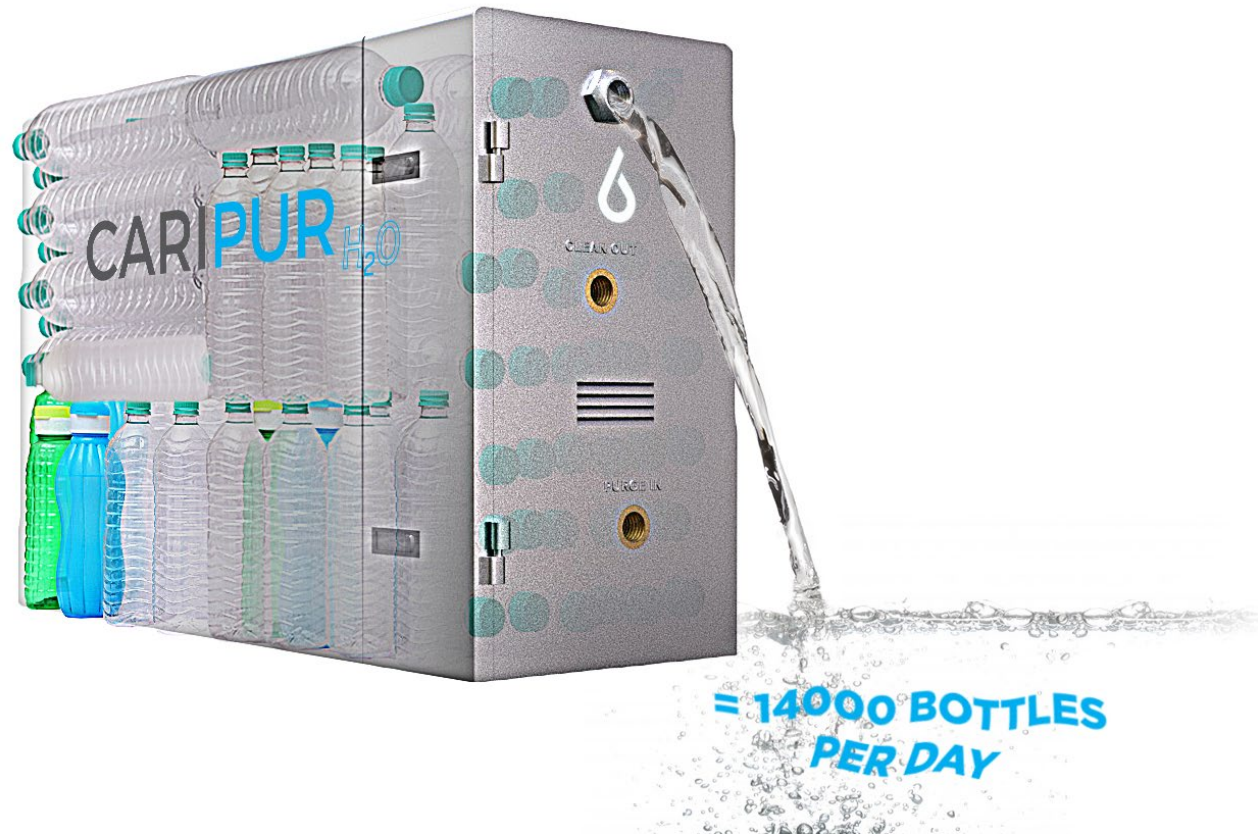
The Caripur system's inherent capability to collect data on and expose data related to the end-to-end system consumption of water provides basic data that are accessible and controlled via an app for every user. This includes insights on usage and device performance that extends to all residential, commercial, and government-related users via our app.

Our device monitoring includes:

- Cistern levels
- Water Pressure
- Energy consumption
- Flow
- Water Temperature
- Water Quality
- pH
- Barometric data
- External temperature
- Air Temperature
- Humidity
- Atmospheric particulate matter



One Caripur unit is able to produce up to 20 gallons per minute of drinking water, enough water to replace over 14,000, 16 oz bottles per day.



Of the top thirty global polluters per capita, ten are from the Caribbean region, with Trinidad & Tobago in the lead.

According to *Forbes*, at least five percent of Trinidad & Tobago's waste is "almost guaranteed" to end up in the ocean, making the nation responsible for more marine plastic per capita than 98 percent of the world.

Other Caribbean nations among the top 30 per capita polluters are Antigua & Barbuda, St. Kitts & Nevis, Guyana, Barbados, St. Lucia, Bahamas, Grenada, Anguilla and Aruba. For reference, St. Lucia, which produces only the 6th largest amount of plastic waste per capita in the region, is responsible for more than four times the amount of plastic waste per person as China.



- Questions?
- Thank you!

• For more information: [Homepage - Caribbean Water Technologies \(CWT\) \(cwtvi.com\)](#)