

# TRUE BLUE BAY RESORT'S GREEN INITIATIVES

True Blue Bay Resort has consistently championed environmentally sustainable practices. Over the years, the resort's commitment to sustainability has driven its team to implement various eco-friendly initiatives. They have harnessed the power of solar energy, supplying 40% of their energy needs, and utilized solar water heaters to minimize their environmental footprint. Their dedication to responsible water management is evident through their rainwater collection system. In alignment with their zero-tolerance policy for styrofoam and select single-use plastics, they have taken substantial steps towards a greener future.



## New initiatives



In recent years, True Blue Bay Resort has embarked on groundbreaking projects to further their sustainability goals, these include:

- ♦ Implementation of a Biogas Digester
- ♦ Installation of 60 water-efficient toilets
- ♦ Expansion of a rainwater collection system
- ♦ Implementation of Hydroponics system
- ♦ Implementation of Solar ACs
- ♦ Collection of data on single-use plastics used at the resort and plan to reduce to zero in 2 years
- ♦ Expansion of the Electric Car fleet
- ♦ Prep for Recycling program
- ♦ Active resort Green team involved in community engagement



## Implementation of a Biogas Digester



In 2021 True Blue Bay Resort became part of a biogas research project together with the KTH Royal Institute of Technology University in Stockholm. This project focuses on feeding the digester sargassum seaweed in order to tackle the growing issues with the seaweed on the island. This innovative system also efficiently disposes of restaurant food waste and garden refuse, with the added benefit of producing fertilizer for the gardens, including the kitchen garden that supplies the restaurant. Furthermore, the gas generated from the digester is harnessed in the bakery kitchen, and utilized for tasks such as heating chocolate, milk, water, etc. This innovative bio-digester significantly reduces methane emissions and diverts waste from landfills. In the upcoming year, True Blue is excited to collaborate with Recycle Organics to refine and expand these sustainable processes.

## WATER-EFFICIENT TOILETS



True Blue Bay Resort's commitment to sustainability extends to water security through their participation in the Green Climate Funded project for Climate Resilient Water Sector in Grenada known as G-CREWS. This initiative has allowed the resort to fund, source, and install 60 water-efficient toilets, replacing the outdated ones across the property, this will not only help reduce the water used from the resort's own water tanks but the country's water supply as a whole. The toilets around the resort before this project used 5 gallons to flush, the new toilets use only 1 gallon. This project was completed in September 2023 and is estimated to save half a million gallons a year of water!





# EXPANSION OF A RAINWATER COLLECTION SYSTEM

In August 2023, the resort seized an opportunity presented by the G-Crews project previously mentioned, focusing on rainwater collection. Expanding upon the existing 400,000-liter water storage capacity on the property, this initiative incorporated an additional 55,000 liters using black water tanks see in the picture on the right. The project also entailed the installation of new guttering systems to efficiently collect rainwater from the resort's roofs and channel it into these tanks. This enhanced gutter system ensures that the total water storage capacity of 455,000 liters remains full and sustains the resort through the dry season. This project was completed in Mid November 2023.



## Implementation of Hydroponics system

In early 2023, the resort embarked on an innovative venture involving hydroponic systems to enhance on-site agriculture and reduce its carbon footprint by decreasing imports and transportation of goods. The primary goal of this initiative is to substantially boost the yield from the on-site kitchen garden, ensuring a more plentiful vegetable supply for the resort's restaurant. In the forthcoming year, the resort is poised to expand this project further, reinforcing the food security of the restaurant.

## Implementation of Solar ACs

In 2023, True Blue Bay Resort became a beneficiary of a GIZ-funded project. As part of this initiative, the resort adopted energy-efficient air conditioning systems for six of its offices. These new AC units are directly linked to the resort's solar panels and primarily operate during daylight hours, ensuring that office cooling is powered by solar energy, achieving 100% sustainability. Comparative energy consumption data has been collected, comparing the performance of the old AC units with the new energy-efficient ones, and the resort anticipates substantial gains in energy efficiency. This project serves as a pilot that, with successful outcomes, is poised for expansion throughout the entire resort and other hotels in the coming years.





## Single Use Plastics

In 2023, True Blue Bay Resort initiated a partnership with a forward-thinking company called Plastiks. This collaborative effort focuses on comprehensive data collection concerning single-use plastics within the resort, with an ambitious goal of achieving zero plastic waste within just two years. As part of this commitment, the resort is dedicated to eliminating single-use soda bottles from its operations and instead introducing a more sustainable alternative by installing a soda fountain in the bar area. Additionally, the project encompasses identifying eco-friendly alternatives to single-use garbage bags and strategically placing filtered water fountains throughout the property to encourage a significant reduction in plastic waste. This collective endeavor aligns perfectly with the resort's overarching mission to foster a greener and more sustainable environment for the benefit of all.



## Expansion of the Electric Car fleet

In 2020, True Blue Bay Resort initiated its sustainable journey with the procurement of its first electric vehicle, a Nissan EV200 (small van). This milestone marked the inception of a larger mission: replacing all company cars with electric counterparts. By 2023, the resort proudly boasts a fleet of 5 electric vehicles, comprising 2 Nissan EV200s, 2 Nissan Leafs, and 1 Peugeot E2008. This transition holds multifaceted benefits, as it not only substantially diminishes the resort's carbon footprint resulting from transportation but also leads to significant cost reductions, particularly in gasoline expenses. An exciting dimension of this transformation is the cars' utilization of solar energy for charging, rendering them technically solar-powered. With only one gasoline-dependent vehicle remaining, the resort's truck, the roadmap envisions its replacement with an electric truck within the next two years, fortifying the resort's steadfast commitment to sustainability.





## Recycle Program



Over the past three years, True Blue Bay Resort has been proactively exploring opportunities to engage with a new recycling program. This endeavor became necessary following the closure of the existing program due to pandemic-related challenges. Although plastic bottle recycling is currently unavailable, the Grenada government has initiated a program slated for 2024 that will enable businesses to recycle their bottles. In the interim, the resort has been committed to responsible waste management through practices such as waste separation, reduction, and creative upcycling of various materials, notably glass bottles. The resort has established a dedicated recycling center that efficiently separates different waste categories such as plastics, cardboard, and metals. To further encourage recycling, innovative initiatives like the captivating bottle Christmas tree, as showcased in the accompanying image, serve as a testament to the resort's eco-conscious efforts.

## ACTIVE GREEN TEAM



In 2022, our True Blue Green team underwent a re-establishment. This dedicated team takes on diverse responsibilities, including organizing road and beach cleanups, conducting educational visits to schools to engage the community in environmentally friendly initiatives, spearheading creative up-cycling projects, managing our recycling center, and providing educational opportunities for themselves, such as recycling workshops. The Green team plays a crucial role in ensuring that each department adheres to the resort's green initiatives and practices. They hold both the resort and its individual departments accountable for fulfilling their eco-friendly commitments. Without our Green Team our Resort's sustainability projects would not be so successful.

