

Project Overview

Republic Bank
Eastern Caribbean

Financial Institution

11 Customer Branches



Republic Bank is saving an average of 83% lighting energy across 11 branches.

Republic Bank Uses Daylight to Save Energy

Republic Bank, a bank and financial services provider in Trinidad and Tobago, is one of the largest financial institutions in the Eastern Caribbean. Republic Bank has recently pioneered an initiative to reduce energy consumption and operating costs for 11 of its branches in Grenada, Guyana, and Barbados, while following global trends to lower environmental impact through the use of energy-efficient solutions.

Challenge

Energy costs in Grenada, Guyana and Barbados can vary from US 0.40 to US 0.50 cents/kWh – which is three to four times higher than energy costs in the United States. Working toward finding sustainable ways to improve operational profitability in these three countries, Republic Bank was seeking energy-saving solutions to:

- Drastically reduce operating costs
- Improve lighting levels to create a more uniform and comfortable space for clients and staff members
- Reduce the company's environmental impact
- Take advantage of daylight to reduce dependence on electric lighting

“Our customers and the staff are very happy with the new levels of lighting, and this simple improvement has helped us reduce our lighting electricity consumption an average of 83 percent.”

*Rudolph McClean,
Business Security
Officer, Republic
Bank, Barbados*



Photos courtesy of Republic Bank



Solution

Republic Bank selected Custom AV Designs Ltd (CAVD) to design and implement the installation of Lutron Quantum® Total Light Management™ systems in 11 bank branches. Quantum offered scalability, the capacity to combine multiple lighting control strategies under a single protocol, and the flexibility to meet budget constraints.

Placing a Quantum server in each branch office was cost prohibitive. CAVD designed a Virtual Local Area Network (VLAN) to run on the client's existing network, while working closely with the IT department to assure that system installation and operation never compromised security or performance of the banking network.

This approach required just three Quantum servers, creating country-based systems instead of branch-based systems. As each branch was commissioned it was connected to the remote Quantum server. Control and reporting capability came online exactly as designed.

Results

The system drastically reduced the energy consumption in all 11 branches. Savings range from 60 percent in Grenada to 91 percent in one Guyana branch that has greatest access to daylight during work hours. Clients and employees indicate that the new lighting levels make the bank branches more comfortable, and they appreciate the fact that the bank is also becoming more efficient.

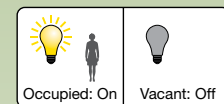
The connections between the Quantum server and the Quantum processors are flawless, and with one secured login from a single point of entry, the client's staff has full access to all connected branches and consolidated reporting.

"Thanks to the installation of the Lutron Quantum® systems, we can see the lights come on when needed and go off when there is no movement in a room." Rudolph McClean, Business Security Officer, Republic Bank, Barbados.

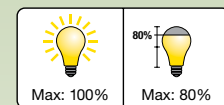
Energy-saving strategies



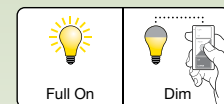
Daylight Harvesting



Occupancy/vacancy Sensing



Hi-end Trim



Personal Dimming Control

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