



"Wireless" Traffic Control Solutions

"Wireless" Crosswalk Systems and Parking Lot Security Lighting

LOCATION: New Providence, Nassau, The Bahamas

Description

Solar Traffic Controls (STC) completed a wireless crosswalk and a parking lot security lighting project on New Providence, Bahamas in October 2007. The equipment fielded was deployed on the Clifton Heritage Park project at the southwest corner of the island, a few minutes from Nassau. The project is considered key to helping the people of the Bahamas understand the history of their island. It combines the installation of nature trails and the restoration of a colonial-era plantation.

Despite high voltage lines over the only road through the park, designers chose to go green and deploy as much solar equipment as possible. STC was first approached 2 years ago after a staff member at Caribbean Civil Group read an IMSA Journal article by STC president Joe Wise. The idea of applying solar equipment for the site made sense with the natural setting of the park.

STC was asked to design a wireless crosswalk system that would allow visitors to safely cross the roadway through the park to move between interpretive exhibits. Caribbean Civil decided to go with a four-pole version of the Solar Ped-X product: a wireless crosswalk system. Satisfied with this design, STC was then asked to provide designs for security lighting systems for the two parking lots at the site and architectural lighting for some of the plantation buildings.

The Solar Ped-X system consists of a single 12-inch red flasher at the crosswalk and single 12-inch amber flashers located in advance of the crosswalk. To minimize power draw and provide adequate light output from the flashers, DC LED lamps designed by Precision Solar Controls were deployed. Polar Bulldog buttons were fielded with the systems as the pedestrian activation device.

Parking lot security lighting consists of Magnaray W1PL36DC lamp fixtures mounted approximately 14.5 feet above the ground. STC designed square steel mounting poles for the lighting systems. A 150W solar array was mounted to the top of each pole to power the lighting system throughout the year.





Completion of the project's second phase is expected by December 2007. It will include security lighting for the second parking lot and the architectural lighting.

Take these steps to insure the success of your solar-powered project:

1. Location - identify the site of the application; for example, the nearest town, village or city and state.
2. Load - specify the number and size of lamps, timers or other controls (anything which draws power).
3. Duty Cycle - determine how many hours per day and which days per week the load will be drawing power.

Go to "Send us your requirements" at www.SolarTrafficControls.com/support/requirements.php for more details.

Solar Power: a free source of energy

STC's solar-powered systems are designed for quick and easy installation in the field. Our careful front-end engineering minimizes your installation costs and provides years of trouble-free operation. The standard solar power system includes the solar array, system enclosure with all the necessary electronics, color-coded wiring harnesses, sealed batteries and full documentation. DC LED lamp kits can also be purchased. These include the LED beacon, lamp housing and mounting hardware.

STC Systems are Cost Effective

Our solar flasher systems allow you to stretch your budget to obtain the traffic safety devices you need at affordable prices. Most systems are equivalent to the cost of obtaining an AC power drop. Battery life is typically three to six years; less expensive than grid electricity for the same period of time.

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