

SOLAR TRAFFIC CONTROLS

“Wireless” Traffic Control Solutions

APPLICATION: *“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.





Solar Power: a free source of energy

Our solar-powered systems are designed for quick and easy installation in the field. STC's 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 24-hour 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 for these systems is typically three to six years: less expensive than grid electricity for the same period of time.

Solar Traffic Controls (STC) provides solar-powered traffic control systems for city, state and federal DOTs; police, firefighting and public works departments; facility maintenance and plant safety industries. Our primary products are solar-powered flashing beacon systems used for school zones and 24-hour applications. We also supply specialized flasher systems using environmental sensors and custom communications packages to control the flashing beacon systems. Our product spectrum also includes wireless power systems for ITS, EMS and HAR. STC's products and services are sold through a network of regional distributors who offer technical support for your project.



For more information

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