"Wireless" Traffic Control Solutions

APPLICATION: *School Safety Systems*
LOCATION: Madison Borough, New Jersey, U.S.A.

Description

Solar Traffic Controls has designed and sold 11 AC-powered school flasher systems with 3M Driver Feedback Urban (DFBU) radar signs for Madison Borough, New Jersey. Installation was completed by Jen Electric.

The equipment was to replace pre-existing AC equipment which was non-functioning due to age. For ease of retrofit, STC designed the systems around the existing, power-ready AC line already available on the poles. The project uses AC flashers and an AC-to-DC converter unit powers the radar signs.

During non-school hours, the system flashers and radar sign are dark and the speed limit is regulated by a static speed limit sign. During school hours-morning drop off, midday and afternoon release- the AC flashers and the radar sign are activated. Driver's speeds are displayed on the radar sign and the AC LED lamps augment the radar sign. Together, they provide a reminder to drivers of the reduced speed limit in school zones during the schools' designated periods.

Time-based operation of the units is accomplished using the STC-01 time clock. With 11 units to program STC provided a complementary STC-01 Desktop Programmer (STC-01DTP).

STC stock photo

The DTP allows the school schedule to be programmed right at the user's desk without the need of a computer, PDA or interface cables. Once the program is entered and verified it is uploaded to a memory chip, the memory chip is taken to the field and inserted into the field clocks where the program copies itself into the field clocks.

The project required furnishing 11 of the latest 3M Driver Feedback Urban (DFBU) radar signs. The sign features an LED display with yellow and red characters, steady or flashing display and auto night dimming. The sign also includes embedded white LED lamps used with a strobe function, data logging, high-speed blanking and user adjustable thresholds. Signs are configured for 12 VDC operation, are solar friendly and can be run from an AC/DC power supply.

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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.

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.

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