"Wireless" Traffic Control Solutions

APPLICATION: ***Industrial Facility Pass-by***
LOCATION: Mountain View, California U.S.A.

Description

The Mountain View Sanitary District's industrial facility in northern California has a curved private road with a one-lane tunnel for vehicle access. Vehicles would sometimes meet head-on in the tunnel resulting in one vehicle having to back up and wait for the other to pass. Often, large semi-trucks had difficulty backing up due to the curved approach on either side of the tunnel.

Solar Traffic Controls (STC) solved the problem by furnishing a modified version of its Solar Ped-X system to enhance traffic safety at the facility. The software for the standard Solar Ped-X product was rewritten to accommodate this unique project. The system consists of two solar flasher poles each equipped with a single red lamp and a TC26B microwave vehicle detector (MS SEDCO) on each pole. The two poles are connected via frequency hopping spread spectrum radios. Flashers remain in the dark state in standby.

When a vehicle approaching a sensor is detected, a call is generated to the system controls. The opposite flasher then goes to flashing red. The vehicle detected is given a single flash to indicate it has been recognized and granted right of way. The controls include a programmable timer for the red flash sequence which can be set to time out after a delay of up to 1.5 minutes from the last detection on a sensor. Custom signs to go with the flashers were furnished by the Contra Costa traffic department. This project typifies the flexibility of many of STC's products to be adapted to industrial safety situations in addition to standard DOT projects.

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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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