"Wireless" Traffic Control Solutions

APPLICATION: ***Upgrades on High-Water Flashers***
LOCATION: City of Tucson, Arizona U.S.A.

Description

The City of Tucson recently completed an upgrade to its existing high-water crossing flashers. The flashers are used primarily during the summer monsoon rains which can cause flooding at unbridged crossings. Before the upgrade, a Streets department employee would have to drive to the site to turn on the flashers using a short-range radio remote.

Solar-powered high-water flashers warn motorists of flooding at unbridged crossings.

The upgrade consisted of adding a paging activation device to trigger the flashers using any telephone available and a set of code numbers for security. The software in the receivers allows the user to group the units so they can be turned on individually, in groups by location, by drainage or citywide. When flooding at the crossings is imminent, the flashers are called and activated by the Streets department.

Solar Traffic Controls provided the flasher systems and used a Nighthawk Systems paging receiver package. The city also chose to purchase an additional four units to be installed at two additional crossings around town. Recurring costs are minimal as all of the units are on one paging account and cost approximately $35 per quarter to operate. The change simplifies the system since any telephone, cell or land line, becomes a viable remote for controlling the systems.

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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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