"Wireless" Traffic Control Solutions

APPLICATION: *In-Roadway Lighting for Native American Community*
LOCATION: Salt River Pima Maricopa Indian Community, Arizona

Description

Solar Traffic Controls (STC) of Arizona, a distributor for Traffic Safety Corporation products, furnished an In-Roadway-Lighting (IRWL) system as part of a facilities upgrade to the Salt River Pima Maricopa Indian Community (SRPMIC). Located adjacent to Scottsdale, Arizona, the system was installed as part of a parking lot and roadway upgrade completed at the tribal office complex. The tribe has expanded its headquarters and built a parking lot across the street, thus creating a need for increased pedestrian safety.

Working with a local engineering firm, STC personnel helped design and specify a suitable equipment package for the project. The package consists of a Traffic Safety Corporation 6-light IRWL with a solar power adapter. The solar power adapter is based on a design STC has manufactured for Traffic Safety for several years. It includes an LCD user interface screen with data collection and display, solid-state load control and a radio transmitter package.

The system was outfitted with Polara Bulldog push buttons to minimize any vandalism. TS500 lamps were used throughout the project with wide beam lenses on both sides to spread the light at the crossing and direct more light to motorists coming out of driveways adjacent to the crosswalk.

The tribe also included advance radio-activated flashers but ran into a snag during construction. One flasher had to be moved to the crosswalk when a 900-year-old burial area was discovered under the eastbound advance flasher location. The discovery was accidental and occurred when a human femur came up in the soil during excavation. The west bound advance flasher did not disturb any ceremonial sites and was left approximately 300-feet in advance of the crosswalk. The flashers consisted of a single 8-inch beacon with a radio receiver, control/timing logic and an integrated charge/flasher control with integral night dimming.

Installation of the equipment was completed by AJP Electric of Phoenix. The project was spearheaded by Au Authum Ki general contracting.

continued on next page

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.

For more information: Solar Traffic Controls, LLC • 1930 East Third Street, Suite 21 • Tempe, AZ 85281-2929 USA
Tel: 480.449.0222 • Fax: 480.449.9367 • info@solar-traffic-controls.com • www.solar-traffic-controls.com