# "Wireless" Traffic Control Solutions

**APPLICATION: *School Zone Beacons***
**LOCATION: Ontario, OR U.S.A.**

***Description***

The system is composed of a single 65-watt solar module; dual 12-inch LED lamps; and a programmable time clock for automatic activation. The solar-powered system requires no electric power and was easily installed by two Public Works personnel. Battery life on these systems is typically three to six years. The average solar panel has a lifetime in excess of ten years and is often warranted to perform for twenty years.

*Ontario Police Capt. Mark Alexander examines the new solar traffic signal. Photo by Tami Hart.*

The system's flashing yellow lights alert motorists to the 20 mph speed limit in the school zone which is programmed to operate from Monday through Friday from 7:30 a.m. to 8:30 a.m. and 2:30 p.m. to 4 p.m. Most important, the powerful lights caution motorists to reduce their speed thus increasing safety at school crossing zones and preventing accidents.

Ontario Police Department Chief Mike Kee commented that the lights "...really make an impact, especially in low light conditions. You just can't miss them." (Argus Observer, Ontario, Oregon, 30 October 2003)

Solar flasher systems are self-contained – independent of the power grid – there's no concern with blackouts. Traffic safety continues if the power goes out.

Made possible by funding from the Oregon Department of Transportation and support from the Ontario School District and the City of Ontario Public Works Department, the Ontario Police Department received a $5,000 grant to cover the cost of two solar-powered signals.

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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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