

*For immediate release*

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### **Chemical Plant Uses Solar Power to Save Costs for Surveillance Security System**

**Kingston, NY, May 19, 2004** - SunWize Technologies and Surveillance Security Intelligence Group (SSIG) have completed the installation of eight solar power systems to operate wireless telemetry surveillance camera systems in Pasadena, Texas. The result to the end user is a cost savings of nearly \$300,000 over the lifetime of these systems.

A chemical refining plant on the Houston ship channel, with an approximate thousand acre complex, had deployed security guards on a 24-hour basis to provide security at their dock facility in order to meet the Coast Guard's new maritime security regulations. Chris Sadler, Director of SSIG, understood the expense since his company provides armed physical security for this and many other locations. To assist his customer in reducing operating expenses, SSIG suggested they install surveillance video cameras in these remote dock areas to replace the 24-hour per day security guards. Since the customer already had a security center to monitor other plant surveillance cameras, this concept could eliminate the expense of the additional security guard personnel at the docks. However, there was a problem. The dock area for this plant is located so far from the main complex there was no electrical power for the camera equipment. After four months of study by the plant engineering and maintenance departments, the estimate for installing just the conduits for both electrical power and the various video signals from the new dock cameras would be \$425,000.

As a result, SSIG decided to investigate a different solution. SSIG contacted SunWize for a proposal on the cost of solar power systems for the camera equipment. SSIG also found that the plant had an existing fiber optic cable junction box with spare capacity located half way between the dock facility and the security center. SSIG proposed that the video signals from the new cameras be transmitted with wireless equipment across the plant to the existing fiber optic cable junction box. At that point, the video signals would be converted to fiber optic signals and transmitted back to the security center. The final proposal amounted to a total installed cost of \$60,000 for both the solar and camera systems. The savings equaled \$365,000 in capital expenditure. The avoided cost for 24/7 security guards plus an extra patrol truck for those guards added up to a minimum of \$108,000 per year in operating expenses. The customer realized using SSIG's proposal would yield a project payback in approximately six months and contracted with SSIG for the purchase and installation of the solar powered systems. Ronnie Eanes, technical support for SSIG said, "The increased need for security in refining and chemical plant operations requires our customers to cover the most remote locations in their operations and using solar is a natural cost solution."

The solar power systems consist of a 240-watt solar array for each camera. The arrays and cameras were mounted to existing eight and twelve-inch diameter poles 15 to 25 feet above the ground and were installed with a lift system. The battery and control enclosures were also mounted on the pipes and include theft-resistant locks. The systems use sealed lead-acid batteries designed to last seven years. The batteries operate the security systems for up to ten days with no sun to assure continuous operation of the system regardless of weather conditions. Extensive time was spent assuring breakers, fuses, and grounding of the systems were more than adequate to meet the safety and electrical code requirements set by the refinery's engineers. SSIG installed these systems with a two-person team taking about six to eight hours per site to complete the solar system installation.

The customer is extremely pleased with their new solar powered surveillance systems and the immediate cost savings. The customer reports there is continuous interest in the systems from neighboring chemical plants and refineries in the Houston Ship Channel area and from out-of-state owners and operators.

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#### **Corporate Headquarters**

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Chris Sadler, SSIG Director, commented, "The use of solar power for these sites provides a cost effective solution and allows us to offer alternative measures to meet the security demands of our customers. A coordinated effort by SSIG and SunWize yielded a system design that was economically feasible. SSIG and SunWize will continue to work together in the future to provide innovative designs for custom applications to their customers."

#### About Surveillance Security Intelligence Group

SSIG is a multi-division company consisting of: The Physical Security Unit, Educational Services Unit, Consulting Unit, and Dignitary/VIP Protection Unit. Headquartered in Pasadena, TX, SSIG is providing these services to customers in the area Industrial Plant Complexes and Commercial Business markets. For more information please see our website [www.ssigsecurity.com](http://www.ssigsecurity.com) or telephone, 281-991-0777.

#### About SunWize

SunWize Technologies, a solar technology company, specializes in the design and manufacture of integrated solar power systems, and associated project development and product distribution. The company operates a manufacturing/distribution facility in Kingston, NY and a distribution center in Oxnard, CA. [www.sunwize.com](http://www.sunwize.com)

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Photo Courtesy of: Surveillance Security Intelligence Group (SSIG)

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