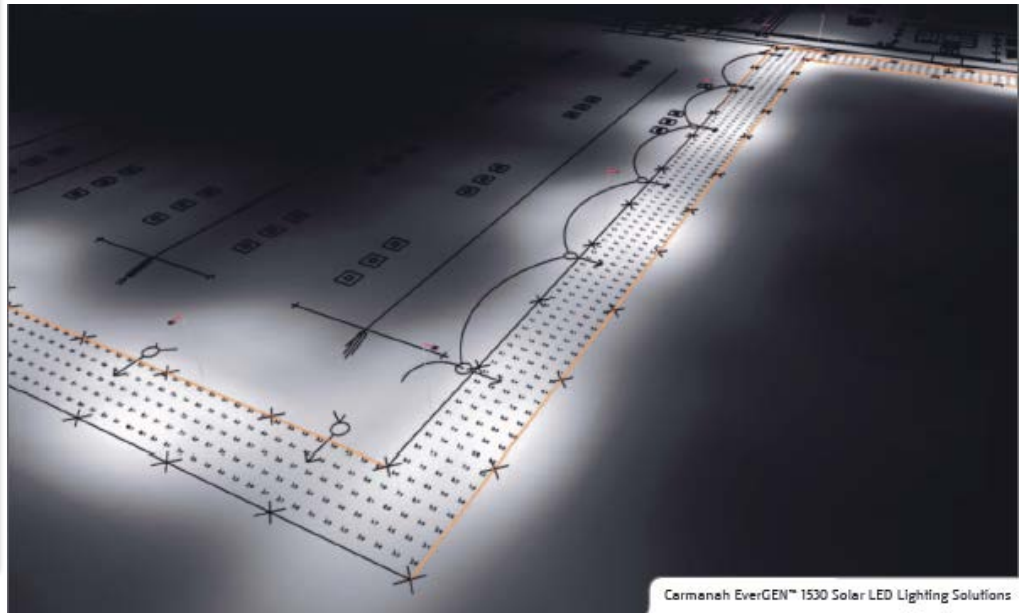
PERIMETER
LIGHTING

Location: Southwest USA

Client: Power-generating station

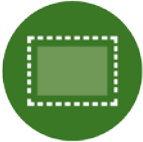
Lighting Agent: [R.C. Lurie Company](#) (Lighting Design)

Products used: Carmanah EverGEN™ 1530 solar LED lights

- 100 systems: Type V distribution – 5920 lumens
- Mounting height: 30 ft.
- Lighting level: 0.3 fc minimum
- Operating Profile: Dusk to dawn

“Solar LED perimeter lights ensure continuity of service and security, without having to run backup power generators or rely solely on grid-based power. This independence in one package is a big benefit.”

– Communications Director for the facility

PERIMETER
LIGHTING

Overview: When a power-generating station in the Southwest US was looking to illuminate their 1,000m long perimeter fence with outdoor lighting systems, a solar-based perimeter lighting solution wasn't top of mind. Despite the abundance of electricity on the grounds, and the seemingly infinite selection of hardwired lighting systems with a variety of fixtures, colors, and options, the power-generating station required an outdoor lighting system that could function in complete isolation from the grid.

Requirements: Power stations throughout the US face a similar security mandate that requires facilities to ensure their emergency systems—including outdoor lighting—can operate even in the unlikely event of power failure. Perimeter fence lighting is one of these emergency systems. With the requirement to provide perimeter lighting impervious to fluctuations in grid-based power, the facility was forced to either find generators that could power the lights independently, or source outdoor lighting systems that could generate their own power.

Our solution: The stand-alone EverGEN 1530 solar LED light is designed specifically for industrial-scale applications such as parking lot and perimeter lighting. Featuring the LEDway™ LED lighting fixture by BetaLED™, the EverGEN 1530 solar-powered lights deliver high performance and uniform distribution, and operate in accordance with Illuminating Engineering Society of North America (IESNA) guidelines.

In the utility company's decision to choose solar outdoor lighting, economics also had a significant role to play. Including time and installation costs, it anticipated it saved an estimated \$2 million (USD) by choosing to go solar.

No surprise, then, that multiple power-generating stations across the US have purchased solar LED outdoor lights from Carmanah Technologies. Security requirements aside, the EverGEN solar lights also help underscore the power company's commitment to renewable energies and sustainable business practices while presenting an economical alternative to traditional grid-powered lighting systems.

Benefits:

- Approximately \$2 million (USD) saved in installation costs (by choosing solar over hardwired systems)
- No trenching/cabling required close to protected area
- Freedom from fluctuations in grid power
- Green renewable technology

