

Rapid Deployment Security Solutions for the Utility Sector

Providing Remote Security for Critical Infrastructure

SUGARLAND, TX, UNITED STATES, July 8, 2026 /EINPresswire.com/ -- Utilities are the lifeblood of modern civilization. We rely on clean water to drink, electricity for power and lighting, telecommunications for connectivity, gas for heat and power, and waste disposal. A disruption in any of these causes a cascading domino effect of disruption, culminating in human distrust and anger. This is the primary reason most utilities fall under one or multiple government regulatory and compliance measures. The physical security of the utility is part of those regulatory and compliance measures.

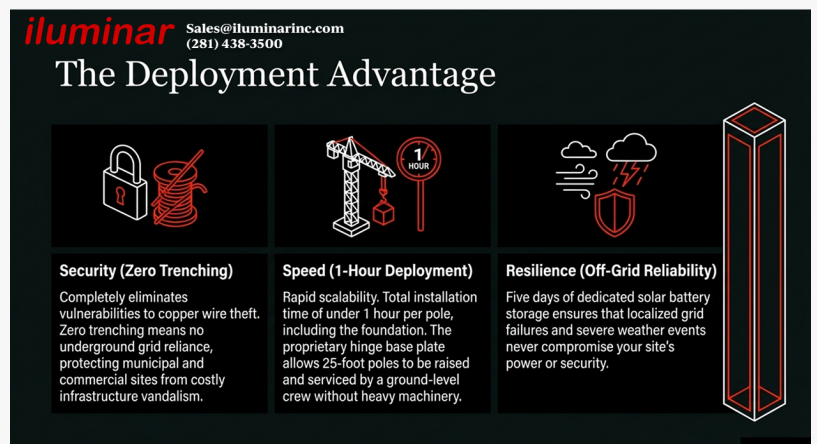
Introducing the Illuminar PowerStack modular pole. Illuminar Inc. (www.illuminarinc.com), a leader in infrared and white light illuminator manufacturing, in partnership with PowerStack, has released a U.S.-manufactured modular vertical solar pole built specifically for the demands of modern physical security. The Illuminar PowerStack is a vandal-resistant pole and is rated to withstand temperature extremes and up to Category 5 hurricane winds, and comes with a factory 10-year warranty.



Illuminar Powerstack Utility



Unlock Tax Incentives with Smarter Solar Infrastructure

An infographic titled "The Deployment Advantage" by Illuminar. It features three main sections: Security (Zero Trenching), Speed (1-Hour Deployment), and Resilience (Off-Grid Reliability). Each section includes an icon and a brief description of the advantage. The infographic also includes the Illuminar logo and contact information.

Security (Zero Trenching)
Completely eliminates vulnerabilities to copper wire theft. Zero trenching means no underground grid reliance, protecting municipal and commercial sites from costly infrastructure vandalism.

Speed (1-Hour Deployment)
Rapid scalability. Total installation time of under 1 hour per pole, including the foundation. The proprietary hinge base plate allows 25-foot poles to be raised and serviced by a ground-level crew without heavy machinery.

Resilience (Off-Grid Reliability)
Five days of dedicated solar battery storage ensures that localized grid failures and severe weather events never compromise your site's power or security.

Illuminar Powerstack Deployment Advantages

The Illuminar PowerStack modular pole is more than just a solar pole. It is an entirely off-grid vertically integrated energy platform. What does that mean? As a vertically integrated energy platform, the pole allows for the ability to mix and match technologies for up to [120W continuous power](#) with five (5) days of no-sun battery backup using long-life batteries. Since it is off-grid, the Illuminar PowerStack is designed to be installed quickly with zero concrete or conduit work. Unlike other solar poles, the innovative square design of the Illuminar PowerStack allows for maximum solar collection with zero loss.

Solving Utility Problems

Utilities are being hit hard as copper theft surges, escalating to near 2006 levels. However, unlike 2006, when copper was being stolen and scrapped, today's copper thefts are being perpetrated by organized criminals who are targeting utility stations and miles of underground wiring. The Illuminar PowerStack pole requires [zero copper wiring](#) to operate, allowing utility providers to increase revenue instead of losing it due to theft. The Illuminar PowerStack qualifies for solar credits, reducing environmental impact with each installation.

Utility sites can also have problems. One, due to the remote locations of most of the utility sites, infrastructure is typically extremely limited; many times the sites are running off cellular connectivity. The Illuminar PowerStack pole allows utilities to install technology (lighting, cameras, network connectivity, even drones for inspections) on a 25-foot-tall pole. Capable of providing off-grid lighting, wireless infrastructure, and cameras, the Illuminar PowerStack solves perimeter security as well as backup connectivity for the site. Whether it's monitoring a fenceline around an electrical substation, a lake for trespassing, or something else, Illuminar has you covered.

A second problem utilities have is that there is typically a significant amount of conduit buried in the ground. Adding infrastructure or even a pole requiring 120VAC power may not be possible. The Illuminar PowerStack solar pole is the perfect fit here, offering a conduit and concrete-free installation that can be [installed in under an hour](#). No heavy machinery needed, thanks to a proprietary hinge plate and a winch (included) powered by a battery-operated drill (not included).

Every utility is different, with different technologies and different requirements. That's where the Illuminar PowerStack changes the narrative. The Illuminar PowerStack is a completely technology-agnostic option. It can support Illuminar PoE lighting, technology partner technologies, and more.

Technology Options (mix and match solutions not to exceed 120W):

- PoE Street Lighting
- PoE Infrared Lighting
- CCTV
- Flashing LED lights
- Environmental Sensors

- SIP-Enabled Intercom/
- Blue Light Emergency Phone
- Hardened Networking
- WiFi
- 4G/5G/StarLink connectivity
- PtP/PtMP Wireless Connectivity
- USB-C Charging
- PoE Outdoor Gunshot Detection
- Drone Nests

Order your Illuminar PowerStack pole, lights, and infrastructure today at sales@iluminarinc.com.

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