



Smart Off-Grid Communications



Illumience Smart Off-Grid is advanced technology that provides real-time, 24x7, remote control, monitoring and management of all wind and solar powered lighting and security systems from Illumient. Data about each system is automatically collected and sent to the central Illumience cloud. All Illumience services are accessible from any Internet-connected device utilizing a browser.

At Illumient, we have designed our lighting and security systems with a focus on simplicity and ease of implementation. Our flexible communications options eliminate the complexity of set up and use a very low cost cellular service. Unlike products from other suppliers, Illumient products come with the communications built right in!

There are three communications options that system owners can choose from depending on their needs. Illumient can help determine the best option for your project.

- 1. Cellular:** Illumient provides an integrated cellular service, with each light / security pole directly communicating with the Illumience cloud.
- 2. Zigbee/mesh with Cellular:** With this option, each light/security pole sends its data to a gateway device using built-in Zigbee communications. The gateway is installed within one of the poles, and it communicates to the Illumience cloud using the cellular network.
- 3. Zigbee/mesh with Ethernet:** With this option, each light/security pole sends its data to a gateway device using built-in Zigbee communications. The gateway is installed at the customer facility and is connected via Ethernet to a corporate network which then sends the data to the Illumience cloud over the Internet.

In a zigbee network, we recommend the maximum distance between poles or to the gateway is 1000 ft (300m).

