



# Smart Off-Grid Lighting for Municipalities

# ILLUMIENT

Smart Off-Grid Lighting

Municipalities around the world are turning to solar and wind power to light and secure locations without existing power, lower costs, or demonstrate a commitment to sustainability. What's more, in today's world, a light pole isn't just for lighting. In fact, according to research firm Gartner, *"The lamppost is the most valuable real estate in the city for the future deployment of the Internet of Things"*. The same poles can host security/CCTV cameras, WiFi hotspots, smart parking systems, smart traffic and congestion relief systems and more.

Illumient Smart Off-Grid lighting solutions are ideal for municipalities. They can be installed anywhere they are needed, without regard to whether electric power is available at that location. They can be installed without disrupting existing landscaping or concrete. Off-grid lighting also demonstrates the community's commitment to sustainability.

What makes Illumient Smart Off-Grid systems unique is the industry's most advanced off-grid intelligent lighting and load management and control system, enabling the lights to be managed, controlled and serviced over the internet. This unique "Smart Off-Grid capability" ensures high reliability and performance, while lowering the cost of maintenance by eliminating service calls and enabling proactive maintenance.

## Some of the communities using Illumient Off-Grid Lighting



SAINT JOHN



MISSISSAUGA



City of Harare



New Maryland

169359  
Kilowatt Hours Generated

113491  
Kilowatt Hours Consumed

172655  
Pounds of Carbon Offset

1861  
Trees Saved

# WHY SMART OFF-GRID MATTERS

## *Real Time Intelligence over the Internet*

- Configuration, load profile changes and power optimization are all done online.
- Optional motion detection can be enabled remotely in all 4 adjustable load profile stages. Real-time event settings combined with motion detection ensures the required load comes on at the right time, while optimizing system availability and the life of the system.
- Customized system alarms and automatic alerts, patented weather data history and forecasting and multi-level reporting provide unmatched intelligence.

## *Remote and Proactive Maintainability*

- Full remote control and monitoring of all system components. Functions include the ability to change load profiles, check solar panels, perform a short circuit test, adjust a battery level, reboot a system, and much more.
- Proactive versus reactive maintenance means your personnel can determine when batteries or solar panels need to be replaced.
- Remote troubleshooting and control slashes your maintenance time and cost.

## *High Reliability and Optimized Performance*

- Individual systems are managed to deliver 100% up time with site specific solar and wind performance.
- Maximum battery life is ensured through optimized charge profiles and life cycle management.
- Short circuit protection.

Brighter Lights with Configurable Profiles

Smartphone app to verify installation

Drill & Drop, Plug & Play Solutions

SMART Controller Integrated Connectivity

Remote Monitoring & Control: Increases Reliability and Reduces Maintenance

Smaller Batteries Longer Life

## Cities and Towns Love Illumient!

Illumient off-grid lights have been installed in many communities throughout the world. We offer a wide choice of options so the lights will complement your environment.

### The Choice is Yours!

- Spun concrete or metal poles, choice of colors and designs
- Pathway, parking lot or street light heights
- Many luminaire choices with any dimming technology and both A/C and D/C lights
- Variety of battery technologies
- Engineered for high reliability, easy installation and quality fit and finish
- Single, dual solar or solar/wind hybrid configurations
- Motion detection option, security camera option
- Advertising banners
- Internet of Things device support - WiFi, pedestrian counters, sensors and more



### Monitored, Managed and Supported by Clear Blue

When you choose Illumient lights, you are never on your own. We make sure the lights will work in your location, and we support you after the sale with our expert support team. Since every Illumient light communicates with our Smart Off-Grid cloud software, we can monitor, control and proactively service your lights over the Internet. Smart Off-Grid is the key to long life, the highest reliability, and low maintenance costs. Find out more by contacting Illumient today!

