

## Johnson Controls Lighting Services include:

### 1. NEEDS ASSESSMENT

Site surveys  
Lighting system evaluations  
Workplace impact  
Better energy use and sustainability  
Operational efficiency improvements  
Financial metrics

### 2. SOLUTION DEVELOPMENT

Cost benefit / savings analysis  
Lighting design (interior and exterior)  
Integrated controls and energy management  
Code-compliant designs

### 3. REBATE PROCESSING

Rebate research and analysis  
Rebate-maximized designs  
Application processing and follow-through service  
Design Lights Consortium (DLC) listing confirmation

### 4. MATERIAL SELECTION & PROCUREMENT

Vendor and product analysis vetting  
Volume purchasing agreements  
Procurement and shipment expediting

### 5. PROJECT IMPLEMENTATION

Safety best practices  
Project management  
System commissioning  
Recycling program  
Measurement and verification services

### 6. CUSTOMER FOR LIFE

Flexible financing options  
Ongoing maintenance and warranty support  
System fine-tuning for maximized savings  
Innovative technology evaluation for future upgrades

## The Johnson Controls Lighting Services difference.

- A. Johnson Controls worksite software visually shows the status of each light fixture to quickly pinpoint problem areas.
- B. Partnering with thought leaders such as those from the Virginia Tech Transportation Institute.
- C. An available light level readings report visually depicts under and over lit areas to show opportunities for lighting improvements.
- D. Year one cost savings in energy and maintenance.
- E. Future ready designs where additional systems for parking management, traffic control, cameras/safety, digital signage and water/climate detection can be easily added.
- F. Safety first in your design and installation.
- G. Lighting systems for streets, roadways and tunnels.

JUST A FEW OF THE LOCATIONS WE'VE INSTALLED LIGHTING SYSTEMS FOR:  
[Hawaii Department of Transportation](#) | [City of El Paso](#) | [Binghamton, NY](#)

START PUTTING THE POWER OF A JOHNSON CONTROLS  
INTELLIGENT STREET LIGHTING SOLUTION TO WORK FOR YOUR COMMUNITY.

Email [BE-LtgSvcsCustomerInquiry@jci.com](mailto:BE-LtgSvcsCustomerInquiry@jci.com) or call **800.441.8871**

[www.johnsoncontrols.com/buildings/services-and-support/energy-and-efficiency-services/lighting](http://www.johnsoncontrols.com/buildings/services-and-support/energy-and-efficiency-services/lighting)

STREET AND ROADWAY LIGHTING

## INTELLIGENT LIGHTING SOLUTIONS

See your community in a better light.



Street and roadway lighting are part of Johnson Controls Urban Efficiency program.  
Urban efficiency means smart buildings, smart energy, smart infrastructure and smart transportation.

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## THE POWER OF AN INTELLIGENT STREET LIGHTING SOLUTION.



A smart, adaptive lighting solution from Johnson Controls embedded into new, long-life LED light fixtures can make streets, highways and tunnels safer and deliver long-term economic benefits.

## Greater beauty. More savings. Future ready.

How do you see your community? How do visitors view it? Upgrading street and highway lighting is one of the most visible and impactful improvements you can make to the quality of life and the economic vitality of a city.

Up to 40 percent of a municipality's electrical cost is from street lights. The more efficient your lighting system, the more money you'll save. New street lighting systems are greener technology, in every sense of the word. In year one, you should expect to reduce your total energy and maintenance costs by more than 50%. And in the future, you can continue to upgrade to new control technology and integrate advanced energy management, security and communication systems on the same infrastructure.



## Smart adaptive lighting systems.

A Johnson Controls intelligent, adaptable, energy-efficient lighting solution offers innovative interoperability among devices and systems. Customers can take advantage of remote management and control to improve communication between systems and to access more real-time data. And you'll reduce maintenance and operating costs. Energy usage monitoring, lighting level adjustments and pinpointing outages can be handled remotely using wired or wireless communications. No more night patrols or waiting for citizens to call about outages.

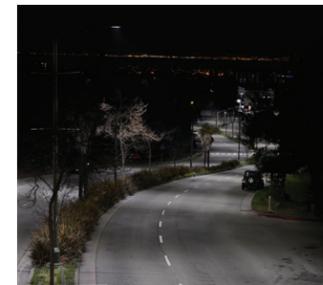
## Smart Applications and networked lighting.

Smart Applications can be added to existing LED street lighting using the current infrastructure to your benefit.

- Traffic analytics mean better traffic flow
- Digital signage for alert notification, civic information and revenue generation via advertising
- Parking management to spotlight available and closed parking
- Gunshot detection so authorities are notified immediately
- Concealed speaker placement for music, announcements and alerts
- Water detection notifies officials about street flooding and water depth
- Climate detection monitors air quality levels
- Better overall visibility is a crime deterrent and roadway objects are more easily seen



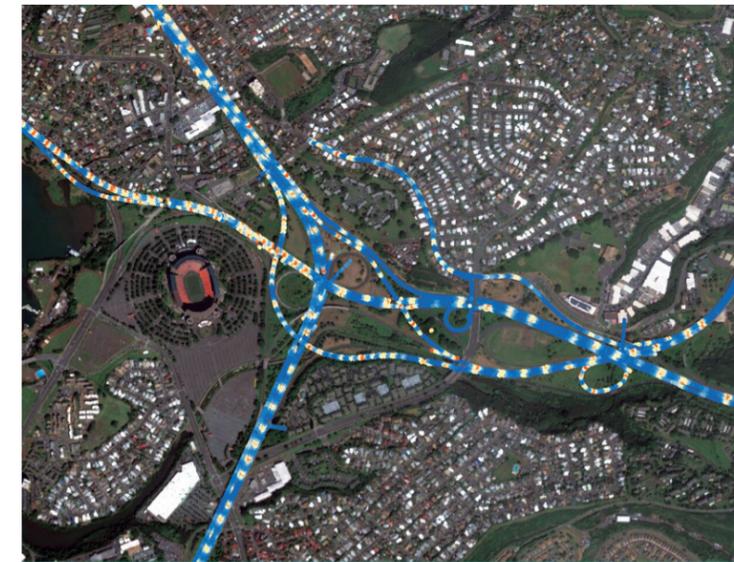
Before LED upgrade



After LED upgrade

## A CUSTOMER WEIGHS IN

"We have roughly 2,500 lane miles statewide, and due to our belt system, it's normally just one way in, one way out on most of our islands. Our infrastructure is very critical, so we've been looking at different ways of trying to improve the safety of our highways with limited resources. With the LED lighting improvements, made possible through our Energy Performance Contract, highways are much brighter and safer. There's more visual acuity, so you not only see the stripes you can see objects ahead much clearer.



**H201 and H1 Interchange on the Island of Oahu**  
An available light level reading report is a fast and accurate way to measure existing light levels and identify where improvements need to be made.

## Creating safer, brighter cities.

### The Presidential Challenge for Advanced Outdoor Lighting

The purpose of The Presidential Challenge for Outdoor Lighting is to work with municipalities to accelerate the adoption of high-efficiency outdoor lighting. This program has a goal of upgrading 1.5 million light poles. A Johnson Controls Intelligent Lighting Solution is an ideal way for municipalities to meet the Challenge and help local governments cut their outdoor lighting bills by 50% or more.

### Night Sky Protection

Night sky protection systems can be designed to reduce light pollution by creating street lighting systems that are only on when needed, that only light the areas that need it, and are no brighter than necessary.

**Jamie Ho, Construction and Maintenance Engineer for the Highways Division, Hawaii Department of Transportation**