



Streetlight Essentials™

Smart Streetlights...Simplified

SMART STREETLIGHTS AS SMART CITY ASSETS

All cities are faced with the challenges of dealing with rising energy and operational costs and aging infrastructure that is expensive to maintain and detrimental to public safety.

One of the easiest first steps a city can take to tackle these challenges is to upgrade legacy luminaires to energy efficient LEDs. It is well known that LED deployments can deliver predictable ROI with 50%+ energy savings.

However, one of the biggest mistakes you can make on this critical step in your smart city journey is failing to implement smart lighting controls during this upgrade.

Adding networked lighting controls (NLCs) an LED upgrade captures all of the benefits of energy-efficient lighting, enhanced public safety, increased visual appeal, PLUS energy savings from dimming and up to 30% operational savings from streamlined field operations.

Further, the connected streetlights form a multi-purpose IoT network platform that can serve as a springboard for broader smart city rollouts, supporting sensors and applications for smart energy, water, traffic, air quality, safety and more.

WHY STREETLIGHT ESSENTIALS?

Previously, deploying a new city-wide wireless streetlight control system with a Central Management System (CMS) seemed daunting because of the cost, time to deploy, design complexity, and the need to acquire new IT resources to maintain the solution.

Now, **Streetlight Essentials (SLE)** brings a comprehensive roadway lighting control solution delivered as a simplified managed service. This offering brings all the benefits of a modern lighting control system with none of the complexities. You simply install the smart controller during the same trip when the new luminaire is installed and Itron will manage the rest.

SLE delivers the same robust and secure streetlighting control technology used by [Itron's largest utility and city customers](#), delivered in a low-touch, services-based model making it the easiest complete streetlighting control solution to deploy and maintain in the industry.

The ROI of Smart Streetlights

- » 50%+ energy savings
- » 30% operational savings
- » Up to \$329 societal benefits per light (e.g. less crime, fewer traffic accidents, reduced carbon emissions)

STREETLIGHT ESSENTIALS ADDRESSES PAIN POINTS

CUSTOMER CHALLENGES



HIGH ENERGY COSTS

Outdated lighting consumes up to **50%** of a municipality's energy spending



EXPENSIVE TO MAINTAIN LEGACY LIGHTING

Typical maintenance budget is up to **\$30/** light/year



CUSTOMER COMPLAINTS, SLOW RESPONSE TIMES

42% of citizens say public safety is the biggest benefit of smart lighting



IMPENDING CARBON REDUCTION GOALS

22+ states now have 100% clean energy goals

SLE FEATURES

STREETLIGHT CONTROL

Reduce energy usage by **10-30%/**year

FLEXIBLE NAAS PACKAGE

Reduce operation costs by **30%/**year

DYNAMIC CONTROL & DIMMING

Capture up to **\$329** societal benefits per light

BUILT-IN REPORTING

Track an additional **30%** eCO2 emission reduction beyond LED alone.

"By converting our streetlights to LED technology, we are modernizing Chicago's infrastructure, creating new jobs and saving taxpayers more than \$100 million over the next decade."

-City of Chicago

THE ITRON STREETLIGHT.VISION CMS ADVANTAGE

[Streetlight.Vision](#) (SLV) has been chosen by more than 500 communities to control more than 4M intelligent devices worldwide. SLV is included in Streetlight Essentials, giving you secure access to a scalable CMS for asset management, analytics, control, reporting and permissions-based visibility across your city.

LET'S TAKE THE NEXT STEP

More is expected of our cities and communities than ever before. Citizens are demanding cleaner water and air, less traffic congestion, smarter parking solutions and more real-time data and digital services.

Streetlight Essentials is helping cities and utilities take a significant first step to address these challenges head on while reimagining how they can deliver smart lighting services to improve efficiencies, lower carbon emissions, create safer neighborhoods, and enhance both equality and quality of life for all citizens.

Itron is a trusted and proven leader in smart community solutions – are you ready to take your next step?

Watch our [smart streetlights video](#) and visit itron.com/smart-cities to learn more.

WHAT'S IN STREETLIGHT ESSENTIALS & HOW DOES IT WORK?

Streetlight Essentials consists of four main components:

1. Streetlight.Vision (SLV): Hosted central management software for lighting and smart city management and control
2. Itron Network Services: Itron hosted/managed IoT network connectivity
3. Itron Networked Lighting Controller (NLC): Replaces legacy photo controller with a broad range of NLC's for standard and decorative fixtures
4. SLV:GO: Mobile streetlight deployment, lifecycle management and analytics tool

STREETLIGHT ESSENTIALS ARCHITECTURE

SOFTWARE

Itron SLV CMS Platform

NETWORK SERVICE

Itron Network Services:

- » Network Connectivity
- » Endpoint Management
- » Firmware Management
- » End-to-End Security

CONTROL

RF Mesh
Networked Lighting Controls (NLCs)



SLV



SLV-GO mobile deployment tools

"We selected Itron due to our long-standing partnership, their transformative and open network, powerful meters, extensive smart cities ecosystem, innovative partner program and trusted managed services."

*-David Lukcic, Senior Director, Operations
Technology & Strategy, Tampa Electric Company*



Join us in creating a more **resourceful world**.
To learn more visit itron.com

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