

SensyCity®

ENERGY SAVING

—
AGEN CONURBATION



LACROIX

Challenges

Reduction of energy costs & maintenance

Conurbation main objective is to **decrease its electricity consumption by 50%** and to reduce overall expenditures related to public lighting

Quality improvement of the rendered service

As part of its process to get «Cit'ergie» label, Agen Cornubation also wishes to **decrease energy waste by about 30%** and protect ecosystems by reducing light pollution caused by public lighting.

Approach

So, Agen Conurbation launched a comprehensive approach to renovate entirely its lighting installations. It ordered first a «Light Plan» to a specialized engineering office in order to identify and prioritize the sites to be renovated within the different municipalities.

At the same time, it also launched **a first phase of tests on 7 sites**. All different (park, residential area, national road ...) so with various uses and lighting needs, they have a dilapidated equipment in common.

TEST OBJECTIVES

THE 7 SITES HAVE BEEN ENTERELY RENOVATED AND EQUIPPED WITH LED LIGHTS, BUT ALSO WITH SMART MANAGEMENT AND SENSYCITY® SENSING SYSTEMS.



estimate the potential savings on the energy bill



prove to the elective representatives the legitimacy of the approach



observe residents and users reactions



inform local population of the investments done by the Conurbation

The lighting park of Agen Conurbation has about 20,000 lighting points, 75% is more than 25 years

The installations generate an growing energy bill of 1.4 millions euros and requires many breakdown interventions to ensure a decent level of service.

AGEN CONURBATION IN FIGURES

31 municipalities
20,000 lighting points (LP)
Aging installations: **75%** of the LP have **more than 25 years**

ENERGY CONSUMPTION: **1.4M€ / year**

GROWING ENERGY BILL: **+5% / year**



3 VIA SensyCity® sensors + Radar

121 S.I.R SensyCity® sensors

6 months of test

4 scenarios

7 sites

large communication campaign

124 lighting points

THE SOLUTION

On the advice of the Lumin'e Sensagency with respect to sensors, Agen Urban District opted for LACROIX City's SensyCity® ecosystem as it needed a versatile-solution, that could be used with all types of LED lights and would be easy to implement.



20% Dimming

100% Boost on detecting the presence of pedestrians and bicycles



Dynamic detection: boost as vehicles pass

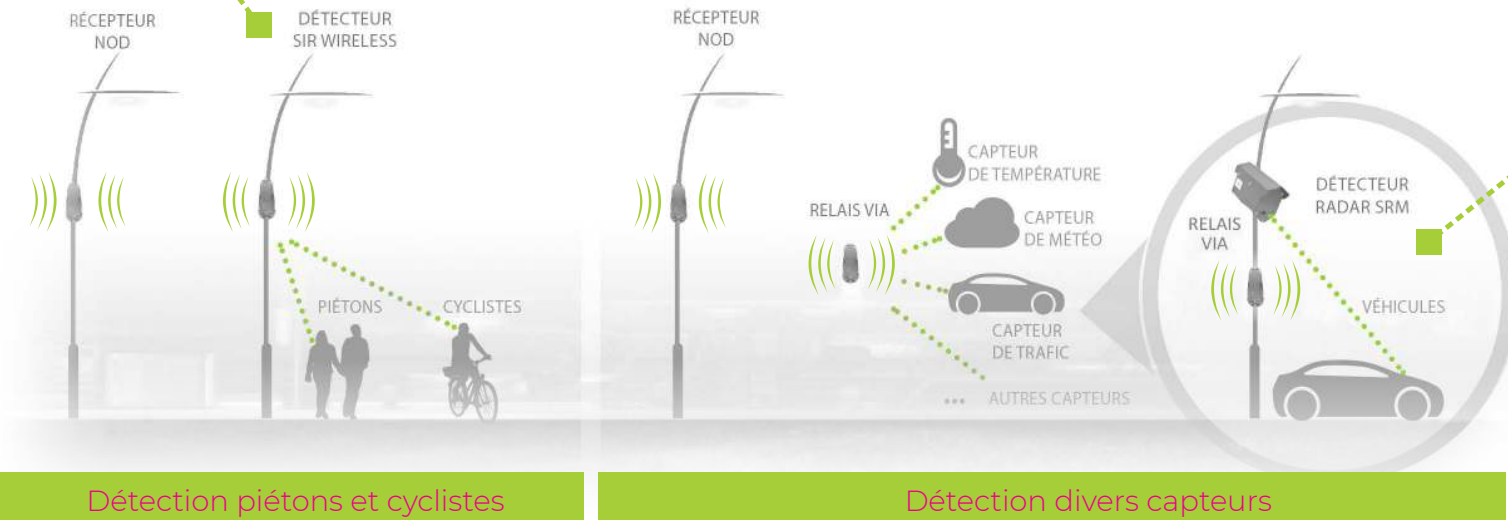


THEY TALK ABOUT

SensyCity®, it's a guarantee of savings.

The first results on test sites speak for themselves: between **80** and **95%** of energy reduction with detection solution, while **we targeted 50% savings** with a change of technology (LED) at the start of the test.

J-M Gilly, Vice-President of Agen Conurbation, in charge of Public Lighting & Road, Mayor of Estillac



Up to **96%*** of energy savings

*measurements on 4 tested sites equipped with LED vs. previous installations with mercury vapour lamp/ scenario: 20% dimming + sensing with SensyCity®, 100% boost

THEY TALK ABOUT

SensyCity® is easy.

Once the first tour made and the devices registered in the app, you can make the settings you want with no necessity to be on site. Then you just come back near the installation to send the settings, without the need to go under each lighting point.

Pascal TRAUQUET - Head of unit Public Lighting - Traffic Lights - Agen Conurbation

CONVINCING RESULTS

- ✓ An energy bill **divided by 6**
- ✓ **A service quality** & a users **safety** preserved
- ✓ **Satisfaction** of the elected representatives



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