

UNCOMPROMISING LIGHTING MANAGEMENT: SAVINGS AND QUALITY OF SERVICE

Pau, FRANCE



Background

Pau is a people-focused city located in southwestern France.

Offering a wide variety of spaces, the city continually adapts its approach to urban planning to its many different types of areas.

Pau has been **committed to managing its energy use** for several years. It is implementing an approach based on efficiency and careful analysis of its citizens' practices in the city, whether they are traveling on foot, using soft mobility methods, by car, or by public transport.

It focuses in particular on the use of public lighting, and its history bears witness to this. Building on the installation of the city's first street lighting in 1887 (only six years after the invention of the light bulb!) and the implementation of its comprehensive approach to urban development through lighting in 1996, the city of Pau is currently working on illumination projects for its historical heritage buildings and is demonstrating **an innovative lighting strategy supported by public players.**

80,000 RESIDENTS

15,500 LIGHT POINTS

450 CONTROL CABINETS

32% LED LIGHTING

Challenges

For the city of Pau, public lighting is a key driver of action to maintain the city's appeal and manage its energy use **without having to compromise.**

The challenge is to ensure continuity of service, despite electricity price rises in recent years.

Pau has chosen not to turn off its streetlights.

This means the city faces multiple challenges:



significantly reducing its energy consumption,



reducing energy costs and coping with the energy crisis,



providing a high level of service to users while maintaining their safety and well-being,



taking account of the environment and biodiversity.

Approach

A LONG-TERM LIGHTING STRATEGY DESIGNED WITH THE WHOLE CITY IN MIND

Committed to ensuring its citizens enjoy a high quality of urban life, and supported by strong political will, the city of Pau has taken a comprehensive approach to renovating its public lighting, adopting **differentiated but simultaneous ways of managing** the city center and the areas outside it.

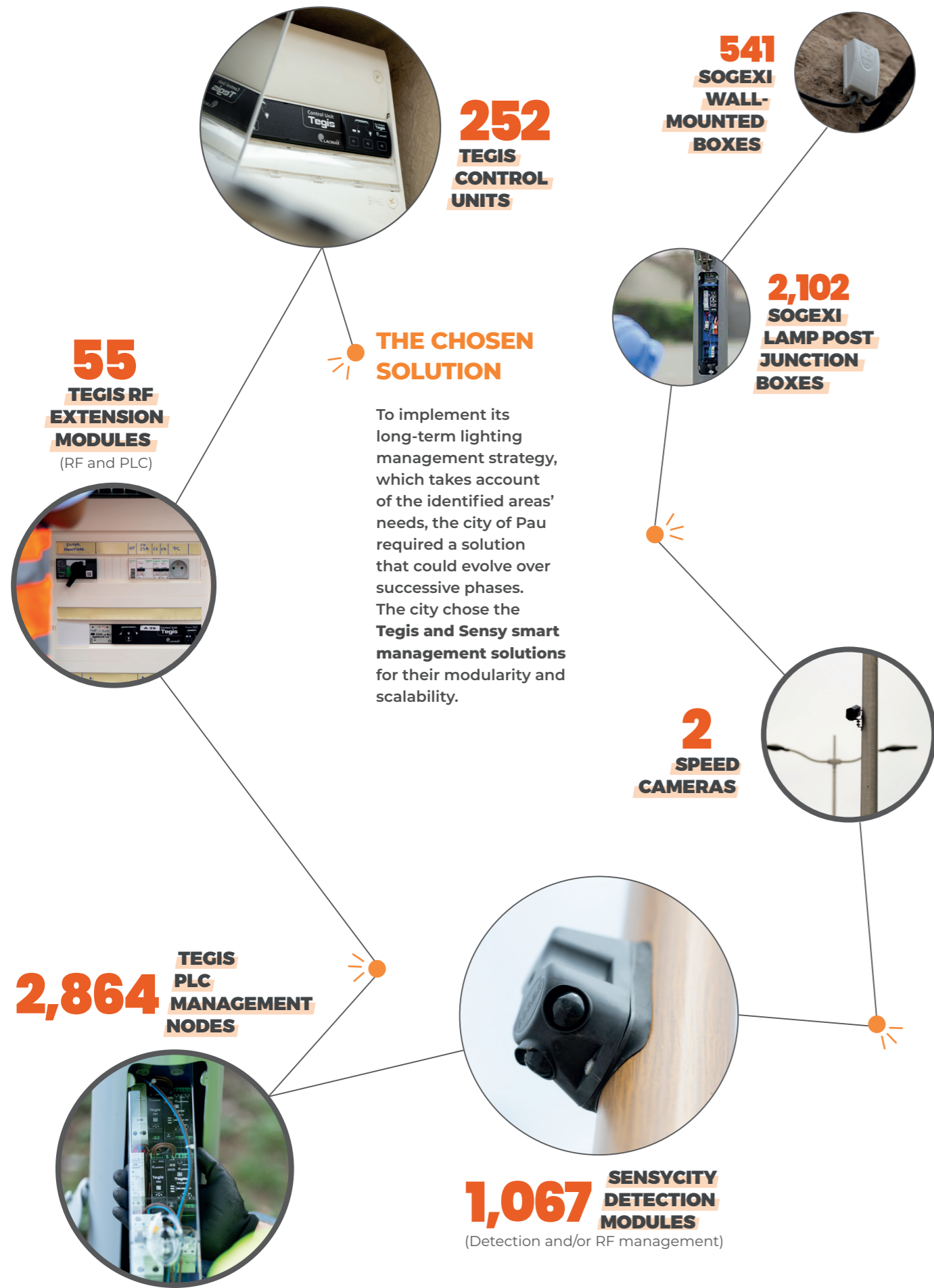
The aim is to think about the city and its night lighting in the long term, **respecting the unique requirements and needs of each area.**

This strategy has required two key steps:

1 2015: creating a light planning strategy and identifying 3 distinct areas: the city center, the Saragosse district and the rest of the city.

2 From 2016, renovating city lighting, with a gradual switch from traditional lamps to LED.

This means that the city of Pau has created an uncompromising public lighting management plan from 2018 to 2028, combining benefits for citizens, energy savings, and an environmental approach.



THE CHOSEN SOLUTION

To implement its long-term lighting management strategy, which takes account of the identified areas' needs, the city of Pau required a solution that could evolve over successive phases. The city chose the **Tegis and Sensy smart management solutions** for their modularity and scalability.

DIFFERENTIATED CITY MANAGEMENT THANKS TO SCALABLE AND MODULAR SOLUTIONS

Based on a dense citywide network, the city of Pau uses LACROIX solutions separately and in combination. Take a closer look at just a few of the use cases.



IN THEIR OWN WORDS...

Jean BIDEGARAY
Head of Department, Public Lighting and Illumination

Combining LED renovation and remote management in a static scenario results in energy savings in excess of 70% at each renovated installation, rising to 92% with the use of detection. These are the results we've seen in Pau with scenarios adjusted to suit each of our defined zones. We've been able to absorb the impact of the energy crisis in recent years thanks to our proactive deployment of these smart solutions. >>>

HISTORIC CITY CENTER

Remote management to maintain the city's appeal and cope with the energy crisis

LACROIX solutions

- Tegis Lighting Plus (PLC)

The benefits: a remote management system connected to the cabinet and light points to improve residents' experience at night, meet functional lighting needs and reduce energy consumption.

Tegis



SARAGOSSE DISTRICT

Remote management benefiting urban renewal and biodiversity

LACROIX solutions

- Tegis Lighting
- Tegis Lighting Plus (PLC)
- Tegis Lighting Plus 24/24 (PLC)

The benefits: management of variable color tone lighting; constant power supply to CCTV cameras, depending on the areas, to protect local fauna and flora and ensure citizens' safety.

Tegis



SKATEPARK

Smart management of lighting and third-party sensors for the Smart City

LACROIX solutions

- Tegis Lighting
- Tegis Lighting Plus (PLC)
- Tegis Lighting Plus 24/24 (CPL)
- SensyCity

The benefits: lighting control, presence detection, and power to CCTV cameras, loudspeakers and Wi-Fi terminals, for a secure site that benefits citizens, day and night.

Tegis SensyCity



RESIDENTIAL AREAS

From remote management to detection: maximizing energy savings combined with user comfort

LACROIX solutions

- Tegis Lighting
- THEN Tegis Lighting Plus (Radio) combined with SensyCity.

The benefits: an initial installation of smart remote management equipment, then moving toward a system combining remote management and presence detection to maximize energy savings while guaranteeing the right level of light at the right time for users.

Tegis SensyCity



COMPELLING RESULTS

10 hours OF DIMMED LIGHTING (reduced to 50% intensity) = 5 HOURS SWITCHED OFF

Up to **91%** ENERGY SAVINGS

12% REDUCTION in cabinet power consumption between 2022 and 2023.

HAPPY CITIZENS thanks to the continued high level of service

IN THEIR OWN WORDS...

Grégory MENDIBOURE
Operations manager, Public lighting and illumination

Remote management is the basis of energy efficiency. Without this ability, we couldn't do what we're doing at the moment. LACROIX is helping us implement our lighting renovation plan, while remaining open to rolling out smart city sensors. >>>



LACROIX - City Public Lighting BU
1, rue de Maupas
69380 Les Chères . France
Tel: +33 (0)4 78 47 33 55
info.eclairage-public@lacroix.group
www.lacroix-city.com

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