



## Citylone Combines Indoor and Outdoor Management to be More Energy Efficient

Save energy, reduce consumption, protect the environment are terms often referenced in magazines, communications and websites all around the world. Energy management is one of the biggest challenges private and public organizations will be faced with in the coming years and today cities and governments are already working on creating goals for today's energy challenges.

Energy management does not only focus on reaching goals for the safety of our planet, but communities and private companies' are aiming :

- ✓ to save energy and then money,
- ✓ to be efficient in maintenance time,
- ✓ to show their publics they are active in environment protection.

The average city building needs energy inside for HVAC, lighting, air quality management, as well as energy for the outside of the building, mainly for lighting poles of the pathways and car parks.

Today, buildings are often designed to more energy efficient but if you combine the indoor and outdoor energy consumption, you will realize most times that the energy consumption of these buildings is highest during the night when the building is unoccupied. This is because the outside energy consumption is not taken into account when reviewing energy data reports.

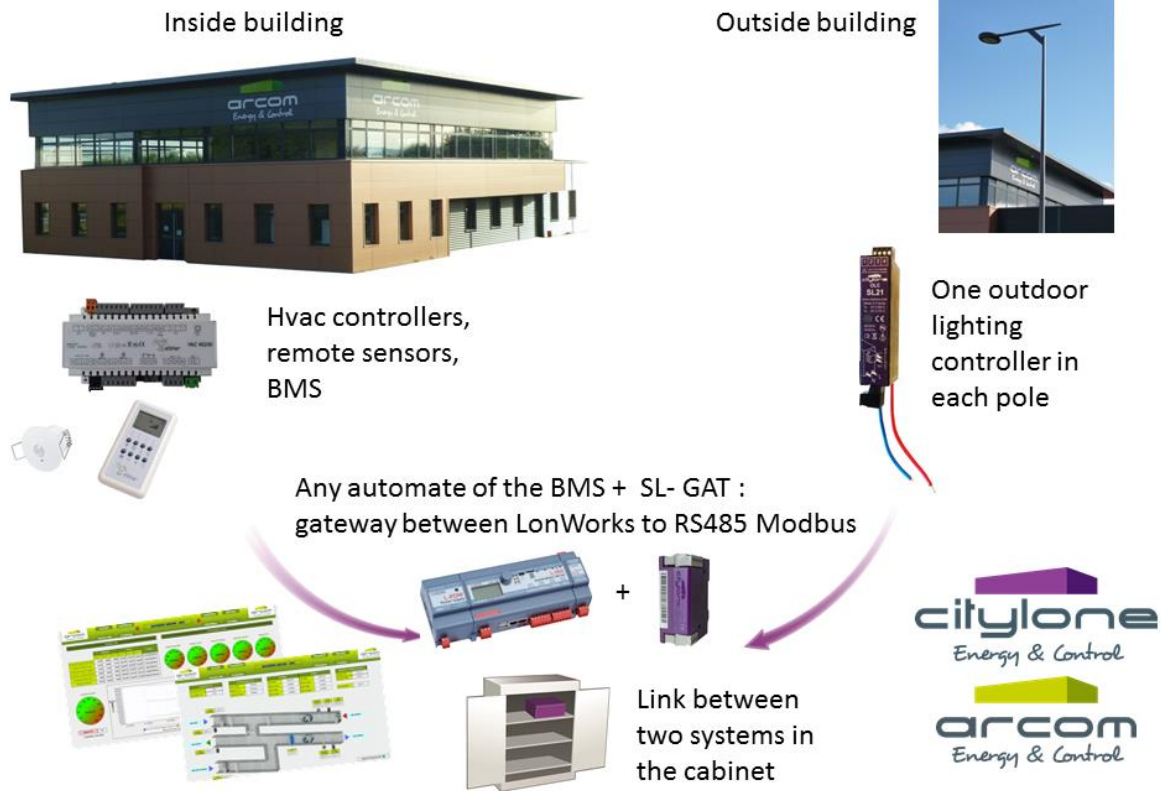
So how can one save energy in the most efficient way for the total consumption of a building?

*The answer is simple implement a solution, which combines both indoor and outdoor energy management with no redundancy.*

One way to be more energy efficient is to use power line protocols. By using electrical networks to carry data, power line solutions avoid creation of new networks and save time and money when you deploy energy management solution.

Another way Second way is it is to use open and interoperable standards from organizations LonMark® International. This open standard allows a customer to purchase materials from different manufacturers on the same network; the customer is not limited to one only manufacturer.

Then, inside energy control is made with HVAC controllers, remote sensors and a Building Management System (BMS). The outside control is made with pole lighting controllers. Management of these two different solutions can be gathered on the same management system: directly from the BMS you can drive the outdoor system with specific outdoor lighting parameters: times, levels, detection, offset, astronomical clock, etc. This is the solution that Arcom and Citylone have developed together.



Arcom was one of the first French companies certified by LonMark International in 1996 and has since developed solutions for indoor energy management. Following demand, Arcom has created in 2008 a subsidiary called Citylone, to address the specific needs of Outdoor lighting management, using the same LonWorks powerline technology.

The strength of these companies is to be the expert in its own field and gather these strengths to offer companies a tool to manage at the same time indoor and outdoor control of a building with a unique tool.

Advantages are:

- One unique system to manage inside and outside which leads to costs saving for installation, maintenance and harmonization of system:

- you save costs when you install the system as you do not need different concentrator and different server to manage your installation.
  - you can decide to adapt outdoor lighting with the same times than the occupancy of the building : no need to light on the poles when building is empty!
  - you need one single maintenance team to deal with inside and outside maintenance as it is done on the same tool.
- Street lighting management can be installed after the building management system, which is often in-place in modern buildings. Very often, organizations take care of the inside of the building and forget about the outside energy consumption. With this system, outside management can be added later and tools are adapted to existing BMS tools
  - Easy system to install for managing outside lighting (no nodes addressing)
  - Outside lighting management can benefit from the same functions of a complete street lighting management:, including lighting levels, slopes, return of failures, history....

As a combination of experience and expertise Citylone and Arcom have created an innovative tool, which allows precise and efficient -energy management in all parts of a building – inside and out.

Think global to save more!

For more information: Catherine Rambaud – Marketing Manager  
[Catherine.rambaud@groupe-arcom.com](mailto:Catherine.rambaud@groupe-arcom.com)