

Energy monitoring of the city of Ottignies-Louvain-la-Neuve

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Year of commitment : 2015

CO2 Impact : The Opinum project has germinated on the basis of a simple observation. Looking at the greenhouse gas emissions emitted around the world, we note that 40% of them emanate from buildings. Opinum offers a real solution to this problem.



30 000 €

Green energies : Energy Efficiency, Other

Digital services : Data centers, Smart metering, Other, Cloud data solutions, Smart grid, Water, Comfort

Circular economy and waste management : Optimization of resources, Save of resources

Biodiversity & Ecosystems : / Environment education /

GENERAL INFORMATION

To honor its commitment to become a carbon-neutral city by 2050, the Belgian municipality of Ottignies-Louvain-la-Neuve has deployed Opisense, the energy consumption monitoring platform developed by Opinum, to monitor the consumption of energy in its buildings. Opisense offers an intuitive and economical way to measure consumption. Since the implementation of Opisense, the city has cut its energy accounting time by 80%, reduced energy consumption by almost 30%, and can easily analyze and share its consumption data. The energy manager has earned more than 80% of his working time by automating his energy accounting. Thanks to this, it improved its communication with the occupants of buildings by showing the figures obtained thanks to the monitoring platform.

Opinum was mandated by the City of Ottignies-Louvain-la-Neuve to monitor the consumption of 114 public buildings. The city had an annual energy bill of 1,100,000 € per year. In order to carry out a consumption report, the energy manager carried out manual readings on paper (encoding errors, time to encoder to Excel spreadsheet, possible calculation errors).

Thanks to Opisense, manual readings can be carried out via Opisense INDEX mobile application or via smart meter reading. Once the data is synchronized and centralized on the Web platform, reports and alarms are automatically configurable.

Using Opisense, a subcontracting energy services company helped the city identify over 150 actions to reduce energy costs:

- Interface GTC / Modification GTC
- Monitoring of consumption
- New regulation
- Meetings with users
- Etc.

Progress Status

Delivered

Data Reliability

Assessor

Funding Type

Public

Website Enterprise / Infrastructure

<https://opinum.com/fr/>

Sustainable Development

Attractiveness :

Reduction in consumption and expenditure

Increased time available for exchange between the building manager and users

Identification of water leaks and energy wastage

Optimization of building control based on actual occupancy

Reducing the ecological footprint of infrastructure

Connect to any existing hardware, new or old

Well Being :

With a digitized management of the buildings, all sources of information are found in a common database, Opisense. This digitization not only reduces consumption, but also increases the comfort of the occupants.

Preservation / Environmental Improvement :

The building of the future will not only consume energy, but also an intelligent supply tool on the network, via the installation of photovoltaic panels and batteries.

Resilience :

Almost 40% of the CO2 produced in Europe is attributable to building consumption. It is important to invest in renewable energies, but also to reduce our consumption to ensure our future.

Responsible use of resources :

Empower building occupants to make better use of energy through the display of building consumption in real time.

Governance

City of Ottignies-Louvain-la-Neuve

Holder Type : Local Authority

Sustainable Solutions

Opisense

Description :

In order to improve the environmental and energy management of your

Buildings, Opinum, an ICT company, has developed Opisense, a

Secure Web that analyzes your energy consumption data.

Once the data is centralized in Opisense, the system generates



automatically analyzes and reports customized to save time and resources while increasing the comfort of occupants.

Opisense connects to a wide variety of IoT sensors and systems automation of buildings, already present or newly installed.

- Smart city :
- Energy/climate :
- Infrastructure
- Digital services
- Renewable energies
- SmartGrids

Company (es) Website :

Contest

Reasons for participating in the competition(s)

Le responsable énergie de la ville est seul pour la gestion de 114 bâtiments depuis 2013.

Le responsable énergie nous a confié que la facture énergétique de la ville était de plus de 1 million d'euros par an. Avec Opisense, la relève des compteurs électricité et gaz est automatisée grâce à des compteurs intelligents. Les données sont stockées et centralisées sur le Cloud Azure. Le responsable énergie de la ville peut dès lors prendre le contrôle de certains de ses équipements de chauffage à distance, quand, par exemple, ce sont les vacances dans une école.

Opisense enregistre le suivi des flux de consommation en signalant le responsable énergie dès qu'une fuite survient. Un système de rapports périodiques permet de communiquer sur les consommations à n'importe qui, n'importe quand. Le retour sur investissement de la solution est une évidence. Ils ont commencé sur les bâtiments les plus énergivores de manière à rapidement rentabiliser le coût du matériel de télérelève.

12 bâtiments pour 800.000€ de consommation annuelle avec un potentiel de 20% d'économie, soit 160.000€/an d'économie.

Le bien être et le confort des occupants sont considérablement améliorés grâce à Opisense. Notre solution permet une utilisation responsable des ressources d'énergie pour les bâtiments.

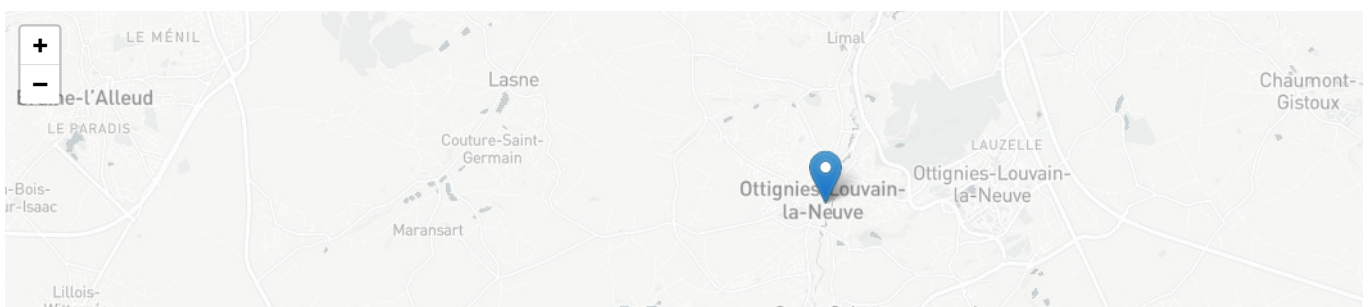
Building candidate in the category



Coup de Cœur des Internautes



Grand Prix Infrastructure Durable





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