ENERBRAIN IN PARIS FOR THE IHF: ENERGY EFFICIENCY AS AN AID TO HEALTH

Italian technology to improve air quality in hospitals

From the 5th to the 7th of June, **Enerbrain** will present their technology which **improves air quality and energy efficiency in large hospitals,** at the 59th edition of the IHF, a study and training meeting organised by the French Association of Hospital Engineers.
The resilience of healthcare institutions in the face of climate change will be one of the main themes of the event.

In this field, the Turin startup has developed a system that cuts large buildings' energy consumption – including the healthcare sector – and significantly improves indoor comfort and air purity. There are definite advantages, not only for the environment, but also for the well-being of patients as well as doctors and nurses' working conditions.
Enerbrain's technology supports existing air conditioning systems without having to replace them, improving their regulation through intelligent algorithms, allowing you to use energy where you need it and when you need it.

The Parisian experience

Right here in Paris, the company can boast a **successful project**, started in collaboration with the **Sainte-Anne Centre Hospitalier**, one of the oldest healthcare structures in the city, opened in 1867 but built on a site used as a hospital since the thirteenth century.
As of today, the Sainte-Anne Hospitalier Centre is a leading centre for Psychiatry, Neurology and Neurosurgery and includes a new building built in 2011 that expands the previous structure with a central body from which two symmetrical wings branch off.
The building spreads out on 8 floors, 3 of which are underground, and **a total surface area of 11,000 square metres**.
In only 2 days, the Enerbrain system was installed throughout the building: environmental IoT sensors were positioned in the strategic areas of each floor, while the actuators were placed on the air treatment unit and on the circuits of the radiant panels that heat and cool the rooms. Both electrical and thermal energy are constantly monitored.

"*We are very pleased to have chosen Enerbrain because, in addition to cutting energy consumption, we are seeing a marked improvement in the levels of comfort within each space. For us, this is key to patient health but also to the work of doctors and healthcare workers*", says **Philippe Stallivieri**, Director of the Department of Engineering, Works and Maintenance at the Sainte-Anne Centre Hospitalier.

"Enerbrain is proud of this partnership with the Sainte-Anne Centre Hospitalier, one of the oldest and most renowned hospital centres in psychiatry and neurosciences, much implicated in sustainable development, air quality and interior comfort for its patients and staff. Thanks to its unique and innovative solution, Enerbrain was selected after numerous meetings, to accompany the GHU in the realisation of it's strict objectives, regarding interior comfort, as well as energy savings." **Rajesh SHARMA**, Advisory Board Member, Enerbrain.

An intelligent system

In just a few days and without modifying existing ventilation, heating and cooling installations, the system created by Enerbrain not only detects thermal comfort and air quality parameters - such as humidity, temperature and CO_2 concentration - but also optimises them in real time, keeping them within established ranges.

Credit for this goes to the machine learning algorithm developed by the company, which allows plants to refine their programming on an ongoing basis to eliminate any possible waste.

The technology is also scalable, so it can easily integrate new buildings, while maintaining unified management and data consultation through an analytic dashboard, which can also be accessed by a Web App.

IHF Paris 2019

Espace Congrès Les Essellières in Paris-Villejuif
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Enerbrain

Founded in 2015 within the Innovative Companies Incubator of Turin Polytechnic, Enerbrain has developed retrofit energy solutions for big buildings that bring drastic cuts in consumption as well as a significant improvement in indoor comfort.