

A Smart Building

demonstration project at SOLEIL



Created by the Essonne Chamber of Commerce and Industry in partnership with the Advancity cluster, the Paris IDF Smart Building network gathers **SMEs from the Paris area with a specific expertise in the field of smart building**, such as telemetry, flow control and monitoring, automation, and energy efficiency in buildings.

The network seeks to consolidate a more complete offer for owners of existing industrial and commercial buildings, encompassing technologies that, although often considered separate, are truly complementary. SOLEIL was chosen as the Ile-de-France representative to host the technology demonstration project promoting offers designed under a common label and targeting the local, national and international markets.

SOLEIL: the perfect place to display the network's features

«SOLEIL is a very large facility with truly unique characteristics,» says Clément Guillon, Deputy CEO at Verteego, an SME providing cloud solutions for Sustainability Analytics, powered by Big Data. «It is open to research and technological projects, and the building itself is home to very complex facilities, with the synchrotron and its 29 beamlines, as well as offices, an 80-room accommodation building, and a company restaurant. Such a remarkable facility so close to Paris quickly emerged as the

perfect place to demonstrate the high-quality solutions provided by our network members, their complementarity and interoperability.»

To meet its users' needs, the synchrotron building must also fulfill specific requirements, such as mechanical and thermal stability, machine performance and measurement reliability. SOLEIL's staff includes infrastructure management teams that rely on a centralized technical management system. These teams recently worked in collaboration with 4 SMEs from the network-Energisme, Energiency, Vertical M2M and Verteego-for data collection and real-time flow processing.

Towards enhanced energy efficiency at SOLEIL

This project is part of SOLEIL's mission to support the competitiveness and innovation of SMEs, and in particular those from the Paris area (Ile-de-France). «The SMEs provide smart solutions for processing data collected via our current system, and these new solutions will give us a chance to raise awareness through real indicators, as well as to open up a discussion on the energy efficiency of our own buildings,» said Michel Bessière, Director of the Technical Supports and Business Development at SOLEIL.

→ **Contact:**
celine.lory@synchrotron-soleil.fr

On October 2nd, 2014, SOLEIL hosted the inauguration of the Smart Building Paris IDF network demonstration project, bringing together 80 economic, scientific and institutional partners.

IN BRIEF

SOLEIL AND THE RESEARCH TAX CREDIT

As a subsidiary of CNRS and CEA, two research institutions which are exempted from applying for a Research Tax Credit authorization by the French Ministry of Research, SOLEIL is also exempt from such an obligation.

This new status, which was confirmed by the Ministry of Research in the spring of 2014, enables companies collaborating with SOLEIL for R&D projects to declare the induced costs as their outsourced research expenses.

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SOLEIL has been home to 5 new inventions since October 2013, all based on research carried out by SOLEIL teams, either alone or with partners from the public and private sectors.

Four patents were filed in France with INPI (National Institute of Industrial Property), including one with a SME as co-owner, and one more should follow in the next few weeks. SOLEIL's patent portfolio is expected to reach over 15 patents, pending or issued, by the end of 2014.