

HIKARI



Press release – 17 September 2015

Greater Lyon inaugurates Hikari, the first positive-energy mixed-use development in France

At Lyon Confluence, the first sustainable neighbourhood in France to gain the WWF label, Hikari, a positive-energy mixed-use development carried out by Bouygues Immobilier and incorporating Toshiba technologies, has become the symbol of Lyon Smart Community. A model smart grid, it is the outcome of the partnership begun in 2011 by Greater Lyon and NEDO, the Japanese government agency which supports innovation in renewable energies and environmental and industrial technologies.

As the COP21 climate conference approaches, Hikari gives a foretaste of the solutions that will transform tomorrow's cities

Gérard Collomb, Senator and Mayor of Lyon and President of the Greater Lyon urban authority, Ichiro Ogasawara, Minister at the Japanese Embassy in France, Horishi Kuniyoshi, Executive Director of NEDO, Mario Dionisio, Technical Officer - Directorate General for Energy at the European Commission, François Bertière, Chairman and CEO of Bouygues Immobilier, and Shinichiro Akiba, Chairman and CEO of Toshiba Community Solutions, inaugurated Hikari on 17 September.

Located in the heart of Greater Lyon, Hikari is the first positive-energy mixed-use development in France. The scale of the development and the sheer extent of innovation make Hikari one of the largest demonstration projects in Europe.

The outcome of an exemplary public-private partnership involving the Greater Lyon urban authority, NEDO, Bouygues Immobilier/SCL Pitance, Toshiba and many other French and Japanese partners, Lyon Smart Community addresses all the issues of energy efficiency, multimodal transport, the role of the user and the

associated management tools. It includes the construction of Hikari, a cluster of positive-energy buildings, the rollout of a fleet of shared electric vehicles, the installation of energy monitoring systems in residential properties and the implementation of a system to analyse energy consumption data throughout the project.

A 12,800-m² complex of three mixed-use buildings containing offices, shops and apartments, Hikari, which means “light” in Japanese, is designed by the internationally renowned Japanese architect Kengo Kuma. His special affinity with transparency and light is reflected in a highly contemporary approach to architectural design inspired by nature.

Packed with innovative technologies related to renewable energy sources, **Hikari over a full year will produce more energy than it consumes.** This goal is achieved through three main factors:

- **bioclimatic architectural design**, incorporating optimum use of daylight and appropriate materials;
- **energy production on-site**: a colza-oil cogeneration plant and a photovoltaic power plant produce a total of 476 MWh of power per year (1523 MWh of primary energy with the coefficients imposed by the planning authority). Equivalent to the consumption of around 160 households, this will cover 80% of the development’s power needs and 90% of its heating needs. Photovoltaic panels to transform solar energy, a geothermal system and an absorption pump for the office cooling system complete the energy facilities;
- **pooled energy resources and data analysis**: energy-efficient buildings coupled with a Building Energy Management System (BEMS) in the offices and a Home Energy Management System (HEMS) in the residential properties ensure that heating and cooling are kept to a minimum, in synergy with the optimised use of any excess energy produced by means of techniques such as cogeneration, energy storage and energy recovery.

An exceptional residential address, between water and sky

“In the 20th century, people believed that the form of a building should follow its function. In the 21st century, however, function follows nature. Architecture is not something we decide for ourselves; it is dictated by nature.” Kengo Kuma, Hikari’s architect.

In a prime location on the Place Nautique, Minami’s 32 top-end double-aspect apartments offer views over the gardens and the harbour basin. Four penthouse apartments, some with interior patios, are the jewels in Hikari’s crown, offering a combination of elegance and serenity.

These exclusive residences have been developed by SLC Pitance.

The programme

Higashi: a 5,263-m², seven-storey office building

Minami: a 3,400-m², 32-unit apartment building

Nishi: a building with 2,246-m² of office space on five storeys and four top-end penthouse apartments

1,000 m² of shops, restaurants and neighbourhood services on the ground floor of the three buildings

88 parking spaces

Complete press pack and visual aids: soleil@wanadoo.fr

Project partners



GRAND LYON
la métropole



TOSHIBA
Leading Innovation >>>



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