

Lyon-Confluence

by Etienne Vignali / 2019-06-04 10:49:06 / Francia / 15315 / FR



Address 1 - street : 69002 LYON, France

Population : 17 000 hab

Number of jobs : 25 000 emplois

Starting year of the project : 2000

Delivery year of the project : 2030



150 ha



3 000 000 000 €

Certifications :



DÉMONSTRATEURS
INDUSTRIELS POUR LA
VILLE DURABLE

ID CARD

Lyon Confluence won a mention at the France level for the Sustainable District Grand Prize of the 2019 Green Solutions Awards + the international Sustainable District Grand Prize.

The Lyon-Confluence urban project has been developing since 2000 (until 2030) on a 150-hectare territory (half existing district, half new buildings and public spaces). In total, this represents the construction of an additional one million m2, without increasing the level of greenhouse gas emissions; thanks to:

- increasing local renewable energy production (photovoltaics & district heating)
- the construction of new high-performance energy-efficient buildings (including positive energy islands)

- the energy renovation of the existing district (private co-ownerships, social housing estates, offices, public facilities)
- sustainable mobility
- the development of a smart grid, via a platform for managing the district's energy data.
- Several international partnerships (Europe, Japan) have contributed to making the Lyon-Confluence district a testing ground for the sustainable development of the Lyon Metropolitan Area.

Results to date:

- completed construction of 500,000 m2 of new buildings with high environmental performance (passive and positive energy).
- confirmed energy renovation for 70,000 m2 of old buildings (18 buildings)
- total power of photovoltaic installations in the district greater than 2MW (30 installations providing the equivalent of the annual electricity consumption of 1000 households)

To carry out the Lyon-Confluence urban project, the Lyon Metropolitan Area has created an ad hoc company: the Société Publique Locale (SPL) Lyon Confluence. As a developer of the district, its missions concern: urban planning studies, land management, new construction, renovation of the existing district, public space works, consultation, information and communication.

You can listen to this podcast (in French) for more information :

<https://www.construction21.org/france/articles/fr/lyon-confluence-l-amenagement-dun-quartier-durable-de-grande-ampleur.html>

And for the video just below, don't forget to put English subtitles.

Programme

- Others

Project progress

- Delivery phase
- Operational phase

Procedure type

- Urban développement permit
-
-

Prescriptions and zoning

- Particular conventions

Key points

- Governance
- Quality of life
- Economic development
- Mobility
- Smart city
- Resources
- Biodiversity
- Energy /Climate

Approaches used

- Ecodistrict national label
- Others

Certifications

- Ecocité
- Industrial demonstrator for the Sustainable City
- Autre

Data reliability

Self-declared

TERRITORY

Type of territory

Located in the southern part of the peninsula, between the two rivers (Saône and Rhône), the Lyon-Confluence area used to be badly considered, as industrial and logistics activities were concentrated (such as harbour for commodities, gas power plant, jails...).

With the decline of these activities in the 1990s, 150 hectares of industrial wastelands remained, landlocked behind motorway and railways.

In 1998, Lyon Métropole started the urban renewal of the Lyon-Confluence area ; with the ambition of doubling the size of the Lyon city center. The objective of the Greater Lyon area is to be able to host 30,000 inhabitants and workers by 2025 (around 5,000 new inhabitants each year) and meet the objectives of the Climate Action plan.

Climate zone

[Cfb] Marine Mild Winter, warm summer, no dry season.

More info

<http://www.lyon-confluence.fr/>

KEY FIGURES

Public spaces area

Public spaces area : 350 000 m²

Office floor area

Office floor area : 250 000 m²

Commercial floor area

Commercial floor area : 150 000 m²

Public facilities floor area

Public facilities floor area : 32 000 m²

Housing floor area

Housing floor area : 550 000 m²

Refurbished floor area

Refurbished floor area : 100 000,00 ha

Number of residential units

Number of residential units : 7 000

Number of social housing units

Number of social housing units : 1 700

Public spaces/inhabitant

20.59

Amount of the investment taken in charge by the local authorities

Amount of the investment taken in charge by the local authorities : 500 000 000 € HT

Project holder

Name : Société Publique Locale Lyon-Confluence

Type : Para-public owner)

General description :

Urban developer in charge of the Lyon-Confluence urban project : studies of urbanism, land sale, new constructions, renovation of the existing neighbourhood, works for the public spaces, information, communication and public consultation.

Project management

Description : *The Lyon-Confluence urban project is implemented by a special-purpose company created by Lyon Métropole : The SPL Lyon Confluence [SPL meaning Local Public Company].*

It is a private company with only public authorities as shareholders (mainly Lyon Métropole and the City of Lyon).

Since the beginning of the Lyon-Confluence urban project, public consultation (with the inhabitants and the users of the neighbourhoods) has been a strong feature.

In 1998-1999, the exhibition « Lyon-Confluence, an urban project » presented the potential of this territory to 24,000 visitors and collected around one thousand contributions. This exhibition marked the beginning of a dynamic of consultation and exchanges with the inhabitants of Lyon, that keeps going since (as and when advancement).

The creation of the two « Concerted Development Zones » integrated several times for public consultation ; such as :

in 2003, meetings with the general public before the creation of the first phase of the urban project

in 2008 and 2009, before the start of the second phase of the urban project, six thematic workshops + a path-exhibition « My City Tomorrow » to collect contributions.

In spring 2016, public consultation on the redevelopment of the Lyon-Perrache train station area (with collected around 250 written opinions).

In addition, a continuous process of public consultation, throughout the project, continue in various forms :

Participatory monitoring committee, with stakeholders from the neighbourhood (several times a year), chaired by the vice president of Lyon Métropole in charge of participative democracy.

This committee is able to inform its members on the news from the Lyon-Confluence urban project, but also to listen to them, and discuss the topics of their choice.

Opening of a place of exhibition to host the general public, several days a week (Project Expo House « Maison de la Confluence ») Lien Vidéo (uniquement en français) <https://vimeo.com/328130841>

Attention j'ignore pourquoi mais le lien vidéo de la version française de la fiche n'est pas correcte (on arrive sur quelque chose qui n'a rien à voir).

Welcoming evenings for new residents (organized since 2010, at each commissioning of a new building block), to create bond between the newcomers and the existing inhabitants of the neighbourhood.

Housing survey (interview of people living in the new dwellings, several years after delivery, to assess the relevance of the design, and to feed the specifications of the forthcoming tenders for real estate developers).

Public consultation for the development of public spaces (throughout the design, and also satisfaction survey once they are delivered, for adjustments if necessary).

- A call for citizen-led projects (« Eurêka Club ») was launched in 2018 [il y a une coquille dans la version française où c'est indiqué par erreur 2016... à corriger à l'occasion], in partnership with a dozen of public and private stakeholders involved in the Lyon-Confluence urban project. Thus, several citizen-led initiatives have been selected. They are related to circular economy, social bond and well-being. Site internet de l'Eurêka Club (uniquement en français) : <https://www.eurekaclub-confluence.com/>

Project stakeholders

SPL Lyon Confluence

Function : Developer

Urban developer in charge of the Lyon-Confluence urban project: - urban planning studies - land management - new construction - renovation of the existing district - public space works - consultation, information and communication. <http://www.lyon-confluence.fr/>

Etienne Vignali [evignali \(a\) lyon-confluence.fr](mailto:evignali@lyon-confluence.fr)

Construction21 company page :

TRIBU / Concevoir Durable

Function : Assistance to the contracting authority

Assistant Project Manager of SPL Lyon Confluence, for its sustainable development strategy <http://www.tribu-concevoirdurable.fr/>

lyon (a) tribu-concevoirdurable.fr

Construction21 company page :

Hespul

Function : Assistance to the contracting authority

Assistant Project Manager at SPL Lyon Confluence, for the integration of renewable energies into the urban project, and the coordination of international projects.

info (a) hespul.org

Construction21 company page :

<http://www.hespul.org/>

Enertech

Function : Technical consultancy agency

Consulting office specialising in the energy performance of buildings, responsible for the evaluation of several European projects at Confluence (new and renovated buildings)

contact (a) enertech.fr

Construction21 company page :

<https://www.enertech.fr/>

Métropole de Lyon

Function : Other

Local authority, and main shareholder of SPL Lyon Confluence

Construction21 company page :

<https://www.grandlyon.com/>

European Commission

Function : Other

Funders of several innovation projects for the sustainable development of the confluence district.

Construction21 company page :

<https://ec.europa.eu/programmes/horizon2020/en>

QUALITY OF LIFE

Quality of life / density

The Lyon-Confluence urban project support a « neighbourhood life », with mix-use building blocks : housings, office spaces, shops, public facilities, cultural and leisure activities. The objective is that everyone can find a suitable place to live all along its life : student housing, social rental housing, social home ownership, intergenerational housing (or housing for elderly).

In total, for the whole Lyon-Confluence area, there will be 35 hectares of public spaces (23 hectares are already completed).

Lyon-Confluence has won the call « Industrial Demonstrator for the Sustainable City » (Ministry of Housing and Ministry of Sustainable Development) is currently developing and testing different urban innovations, within the framework of the « Eureka Confluence » partnership, which brings together different public and private stakeholders, involved in the neighbourhood

[Eureka Confluence expliqué par les partenaires](#) from [Lyon Confluence](#) on [Vimeo](#).

Net density

-0.02

Culture and heritage

The Lyon-Confluence urban project chose an ambitious architecture, combining well-known international architects and French architects (some of them from Lyon) ; and also the involvement with young architects.

While conducting the renewal of the neighbourhood, Lyon-Confluence pays attention to preserve its roots. From the river port to the former wholesale market, all the industrial activities that marked the history of Lyon-Confluence. An important work has been done to keep the memory of the existing neighbourhood.

Thus, the 10,000 m² of « La Sucrière » (former warehouse for sugar storage) and the 3.8 hectares of the Port Rambaud have been retrofitted. Almost 20% of the former halls of the wholesale market will be kept : Flowers Hall (today a gym hall), Girard Hall (today incubator of digital startups), Porch building (to be renovated as a concert hall)...

By hosting the Catholic University of Lyon, as well as mixed-housing program (intergenerational housing complex) and offices, the conversion of the former prisons Saint Joseph (1827-1831) and Saint Paul (1860-1865) is a good example for the refurbishment of the existing buildings ; consistent with the requirements of the achievements of the new district. This is 40% of the existing building that has been preserved.

Many energy renovation projects have been realized in recent years in Lyon-Confluence. To this day, it is more than 70,000 m² of energy renovation projects (works completed, in progress or confirmed) ; for which the reach of the low-energy threshold (French standard : « BBC renovation » for 'Bâtiment Basse Consommation Rénovation') combines improved thermal comfort of old buildings, preservation of heritage and integration of renewable energies.

The artistic and cultural activity is abundant ; with some key elements :

- The « Musée des Confluences » (open to the general public in 2014)

Dedicated to « Sciences and Societies », it questions the main scientific, ethical and social issues ; such as the origins of the universe, the living and the place of human, or even inventions, creations, technologies.

- « La Sucrière », that hosts since 2001 the Lyon Contemporary Art Biennale

Other events (such as exhibitions, arcitectic performance and installations) take also place there. « Le Sucre » ('The Sugar'), installed on its roof, is a place of multidisciplinary programming, where live music, concerts, parties, but also images, graphics or all other forms of contemporary creation and innovative culture.

- Hotel 71 « European & Metropolitan Creative Hub » (on the Rhône river side) gathers various stakeholders of the culture.
- « Marché gare » (Concert Hall), which regularly organizes concerts
- An annual festive event in Lyon-Confluence, to celebrate the « urban good » and the « living together » (concerts, dances, workshops, citizen cafés, activities for children...)

These meetings are an opportunity for the inhabitants of Lyon to (re)discover the neighbourhood differently, in a festive and friendly atmosphere.

Social diversity

In the Lyon-Confluence urban project, a particular attention is paid to social diversity.

The objective is to promote a neighbourhood life, with buildings mixing housings, offices, shops, administratives, cultural and leisure.

The social mix in Lyon-Confluence is a voluntarist choice, stated from the conception of the project ; with a willingness of the Lyon Métropole to have a global proportion of social housings (rental and in accession) of 23%. For each of the building blocks, the real estate developers have to comply with requirements on the proportion of social housings, intermediary housings and housings with no limitation on the price.

The goal is also that everyone can find a suitable place to live all along its life : student housing, social rental housing, social home ownership, intergenerational housing (or housing for elderly).

Social inclusion and safety

Real estate developers building in the Lyon-Confluence area must comply with requirements on sustainable development, which include specifications on the air quality inside the buildings.

In addition, several projects are currently implemented, to improve the provision of care in the neighbourhood (including actions in the field of preventive health) and the maintenance of elderly people at home : healthcare house, housings adapted to elderly people...

ECONOMIC DEVELOPMENT

Local development

Today, around 900 businesses are installed in the Lyon-Confluence area : entrepreneurs, large companies, retailers, shops...).

The new buildings (offices and shops) of the first phase of the urban project have enabled to create 7,500 new permanent jobs. It is planned to have 2,500 additional jobs (once the second phase will be completed).

The Business Club of « Lyon-Confluence Presqu'île » was created in 2009. Its objective is to build and support a network of business connections, featuring business leaders from the neighbourhood.

Since 2019, an incubator of digital start-ups called « H7 » has opened in Lyon-Confluence <http://www.h-7.eu/>

Lyon-Confluence has won the call « Industrial Demonstrator for the Sustainable City » (Ministry of Housing and Ministry of Sustainable Development) is currently developing and testing different urban innovations, within the framework of the « Eureka Confluence » partnership, which brings together different public and private stakeholders, involved in the neighbourhood.

Eureka Confluence expliqué par les partenaires from Lyon Confluence on Vimeo.

Functional diversity

The Lyon-Confluence urban project aims to develop a downtown neighbourhood (with 17,000 inhabitants and 25,000 jobs) : housings, office spaces, shops, public facilities, higher education institutions, public spaces, cultural and leisure activities...

The new building blocks of the Lyon-Confluence area are mix-use (housings, offices, shops). The program has been designed to offer a wide range of offices, suitable for start-ups and large companies. All locations for economic activities have a public transport station less than 400 meters away.

% of public spaces

23

% of office area

17

% of commercial area

10

Circular economy

The guidelines for the real estate developers building in Lyon-Confluence features requirements on sustainable development ; in particular for the use of natural or recycled materials.

A new block currently under construction (B2 « Ydeal »), will integrate a building in rammed earth

Ydeal : le pisé à l'honneur from Lyon Confluence on Vimeo.

Circular economy was also a component of the call for citizen-led projects « Eurêka Club », launched with a dozen of public and private partners involved in the Lyon-Confluence urban project : Lien internet (mais uniquement en français) <https://www.eurekaclub-confluence.com/#1>

TRANSPORT

Mobility strategy

The Lyon-Confluence urban project aims to improve the quality of life in the city by :

- limiting the space taken by cars, and traffic jams
- mutualising the use of car parks between residents and employees working of the neighbourhood

Parc Marché Gare à La Confluence from Lyon Confluence on Vimeo.

- developing electric mobility infrastructures (40 electric charging stands, 16 electric car-sharing vehicles, 2 electric autonomous shuttles...)
- provision of a bike-sharing system (in 9 stations)
- supporting public spaces allowing safe and peaceful travel for bicycles and pedestrian

L'aménagement des Rives de Saône à La Confluence (2014-2016) from Lyon Confluence on Vimeo.

SOLUTIONS

Electric autonomous shuttle « Navly » in Lyon-Confluence

Description : Since September 2016, 2 autonomous electric shuttles « Navly » are in operation in the Lyon-Confluence area

- Soft transportation

<http://navly.tech>

Company :

Company :

Company :



River Shuttle « Vaporetto » in Lyon-Confluence

Description : River shuttle connecting the Northern part of Lyon, to the Lyon-Confluence area.

- Soft transportation

<https://www.confluence.fr/news-detail/Vaporetto>

Company :



Electric charging stands CNR

Description : An electric charging station of the CNR (Compagnie Nationale du Rhône) is commissioned in Lyon-Confluence, since the end of 2016. It is powered with electricity coming from 100% of renewable energy.

- Soft transportation

<https://www.cnr.tm.fr/innover-pour-lenergie/favoriser-la-mobilite-electrique/un-corridor-electrique-dans-la-vallee-du-rhone/>



Public spaces supporting soft transportation in Lyon-Confluence

Description : The public spaces of the Lyon-Confluence area support mobility for bikes and pedestrians.

- Soft transportation

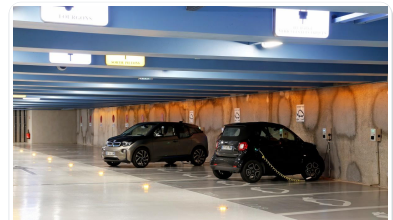
<http://www.lyon-confluence.fr/fr/vivre/se-deplacer/>



Electric charging stands Lyon Parc Auto

Description : An underground car park of 840 places (« Parc Marché Gare »), built by the SPL Lyon Confluence, and operated by Lyon Parc Auto, is equipped with 20 electric charging stands.

- Soft transportation



SMART CITY

Smart City strategy

The Lyon-Confluence urban project aims to take advantage of digital technologies to improve the quality of life in the neighbourhood.

High energy performance buildings (new or refurbished), electric mobility services, local renewable energy production... on these innovative projects of Lyon-Confluence, a regular feedback is set up. In order to improve the neighbourhood's environmental performance, a monitoring system for energy consumption and production is being rolled out, in partnership with the Lyon Métropole data platform.

[Lyon, The Confluence, towards smart city \(2017\)](#) from [Lyon Confluence](#) on [Vimeo](#).

Several public and private stakeholders involved in the Lyon-Confluence urban project are also developing an indicator of well-being, which can help to improve the healthcare offer (preventive and curative) for residents and users of the neighbourhood.

SOLUTIONS

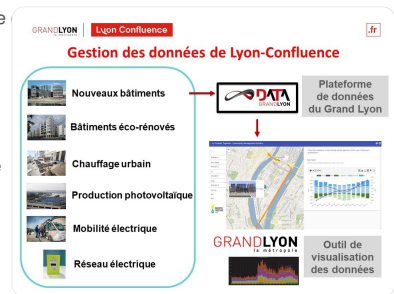
Monitoring and evaluation of energy performance data for the Lyon-Confluence district

Description : Grâce à un projet soutenu par la Commission Européenne, et en partenariat avec la plateforme de suivi-évaluation de la performance énergétique et environnementale du quartier est en cours de développement.

Via la collecte et l'analyse de données agrégées (pas de données personnelles), il vise à permettre un retour d'expérience régulier sur les projets mis en place à Lyon-Confluence : installations de productions d'énergie renouvelable, bâtiment neufs à haute performance, rénovation énergétique des bâtiments existants, services de mobilité électrique.

(crédits photo : SPL Lyon Confluence)

- Digital services



RESOURCES

Water management

The Lyon-Confluence urban project features an appropriate management of water resources, by designing public spaces that favors the infiltration of rainwater.

Soil management

The development of the southern part of Lyon-Confluence (« Le Champ » -the 'field'-, an inhabited wooded park of 5 hectares) is an experiment for techniques of soil remediation, re-creation of fertile soils, and the development of circular economy (in particular for the recycling of concrete).

[Le Champ - terre fertile d'expérimentations \(2019\)](#) from [Lyon Confluence](#) on [Vimeo](#).

Waste management

New construction projects in the Lyon-Confluence area include the implementation of shared gardens and composters.

BIODIVERSITY

Biodiversity and natural areas

Since the beginning of the Lyon-Confluence urban project, biodiversity has been an important part of the sustainable development strategy. There are long-lasting partnerships between the urban developer and associations for nature conservation ; especially LPO « Ligue de Protection des Oiseaux » (French Bird Protection League) and Arthropologia (insect protection).

This contributed to integrated into the public spaces, and in the projects of new buildings, features that favour biodiversity : generous public spaces, shelters for insects and birds, diversity of plants, heart of the buildings blocks with no underground construction (thus, thick soil favouring the growth of trees and other plants).

In total, for the whole Lyon-Confluence area, and by the end of the project, it is 35 hectares of public spaces that will be realised (23 hectares already completed).

[La Confluence : ça sert à quoi la nature en ville?](#) from [Lyon Confluence](#) on [Vimeo](#).

A study realised in 2015 confirmed that, since the start of the urban project (in 2000) ; and despite the construction of 500,000 m2 of new buildings, the number of animal and plant species in the area had significantly increased. These are the results of all the actions done so far.

The second phase of the urban project plans to let more space for the development of the biodiversity ; especially thanks to the development of an inhabited wooded parc « Le Champ » ('The field').

[Le Champ - terre fertile d'expérimentations \(2019\)](#) from [Lyon Confluence](#) on [Vimeo](#).

ENERGY/CLIMATE

Climate adaptation, resources conservation, GHG emissions

Sustainable development had been an important feature of the Lyon-Confluence urban project, for more than 15 years.

The development of public spaces support soft mobility, green spaces and fight against heat island effect.

For the new constructions of the neighbourhood, the guidelines real estate developers have to comply with feature strong requirements on :

- bioclimatic design : dwellings having windows on opposite façades (to favour natural ventilation and cooling), high-performance insulation, renewable energy production within building blocks, heart of the buildings blocks with no underground construction (thus, thick soil favouring the growth of trees and other plants ; which support freshness in the summer).
- the use of natural or recycled materials

For the energy renovation projects in the historic part of the Lyon-Confluence neighbourhood, the aim is to reduce strongly the energy consumption (between 2 to 4 times less, depending on the buildings) but also to improve thermal comfort (especially in summer).

Energy sobriety

When designing new construction projects, a particular attention is paid to the size of energy supply infrastructures (electrical transformers, district heating substations, etc.) to avoid energy equipments over-sized, expensive and energy-hungry.

From the first phase of the urban project, Lyon-Confluence requires that real estate developers comply with energy-saving measure more demanding than current thermal regulations. New buildings built in the neighborhood are therefore very low energy consumers (some are even positive energy).

Energy sobriety concerns both new buildings and the refurbishment of the existing neighborhood (social housing blocks, privately-owned housings, office spaces, public facilities). Several ambitious energy renovation projects have been realized in recent years; representing a total of 18 buildings and 70,000 m² (works completed, in progress, or confirmed).



Energy mix

Since the first phase of the urban project, Lyon-Confluence has included in the specifications for real estate developers strong requirements for the production of renewable energies (biomass boilers, photovoltaic installations, cogeneration ...). Many buildings in the district (new or existing) are connected to the district heating network. Two-thirds of the energy mix of the district heating comes from renewable or recuperative energy (biomass boiler using waste from forest industries in the Region, and heat recovery from the waste incineration plant).

SOLUTIONS

Photovoltaic installation on a refurbished building (H7)

Description : During the last 15 years, around thirty photovoltaic installations have been commissioned in the Lyon-Confluence district; on new, existing or refurbished buildings. This represents a total of more than 2 MW of installed capacity. 6 new photovoltaic installations will be installed between 2020 and 2022; which will bring the photovoltaic production capacity of the area to 3.5 MW.

- Renewable energies



Company :

District Heating system

Description : Since 2016, a district heating network has been implemented in the Lyon-Confluence district, to supply in heating and domestic hot water new, existing, or refurbished buildings. Two-thirds of Lyon-Confluence's district heating energy mix comes from renewable or recuperative energies: heat recovery from the incineration plant, and biomass boiler (waste from forest industries in the region).

To this day, 21 buildings in the area are connected to district heating; which represents a total of:

- 15,000 homes
- 16,000 m2 of offices
- 10,000 m2 of public facilities.



All new constructions of the 2nd phase of the urban project will also be connected (approximately 400 000 m2 of additional buildings).

Lien internet (mais uniquement en français) : <https://chauffageurbain.centremetropole.grandlyon.com/un-reseau-durable>

- Renewable energies

<https://chauffageurbain.centremetropole.grandlyon.com/un-reseau-durable>

BUILDINGS

Buildings

Link to the project buildings the Construction21 database:

- Higashi: brand image and working comfort
- Minami: 32 contemporary homes designed for family life
- Nishi, villas suspended on an office building

Link to a project district in the Construction21 database:

- Hikari, the first urban islet in Energy Positive

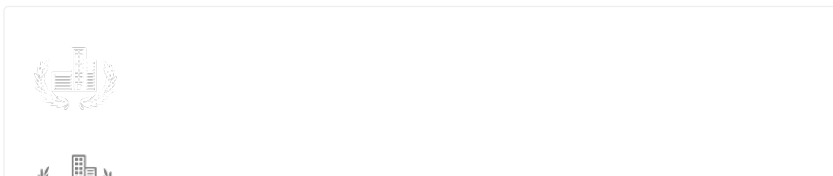
Contest

Reasons for participating in the competition(s)

Lyon-Confluence district:

- a large-scale urban project that has been integrating a strong sustainable development component for more than 15 years, both for new construction and for the renovation of the existing district: local renewable energy production, energy performance of buildings (new and existing), sustainable mobility, biodiversity, quality of public spaces, benevolent housing...
- mixed neighbourhood (housing, activities, shops, public facilities) with, in the long term, 17,000 inhabitants and 25,000 jobs.
- stakeholders of several national and international partnerships (Europe, Japan) for the development of innovations with public and private actors.

Building candidate in the category





Grand Prix Ville Durable



Prix du public



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