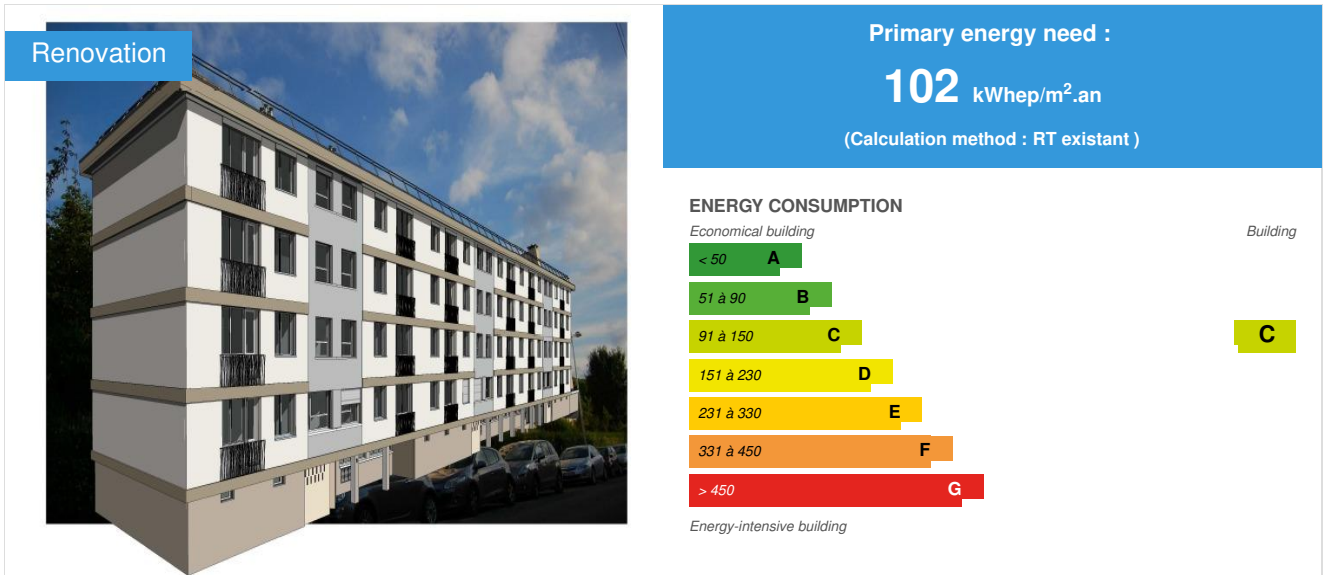


Condominium 48 rue de Saint Cloud in Nanterre

by [Thomas Lemerle](#) / 2019-02-20 10:18:43 / France / 5126 / FR



Building Type : Collective housing < 50m
Construction Year : 1955
Delivery year : 2019
Address 1 - street : 92000 NANTERRE, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 5 154 m²
Construction/refurbishment cost : 1 929 521 €
Number of Dwelling : 64 Dwelling
Cost/m2 : 374.37 €/m²

Proposed by :



General information

Located in Nanterre, this condominium consists of four buildings and 64 homes was built in 1955. It has not been renovated since and that is why in 2016, the syndicate of condominium has decided to renovate .

Thus, the work that has been done is:

- Low pressure ventilation
- Collective condensing boiler
- Collective heat of sanitary water
- Isolation from the outside of the walls and the roof

This allowed to divide by almost 3 the energy consumption of the condominium from 283 to 102 kWh / m² / year. The condominium has reached the BBC renovation level in some aspects without validating the certification by a certifying body.

Sustainable development approach of the project owner

The project consists of the overall renovation of the 4 buildings of the condominium. This allowed to reach the level of performance BBC renovation (104 kWhep / m²SHON / year in Île-de-France) and therefore to greatly reduce energy consumption.

In addition, the financial effort was important from the condominium to "embark on energy renovation". Thus, all the inhabitants will be able to benefit from the comfort of this renovation.

Architectural description

The condominium is composed of 64 dwellings spread over 4 buildings in R + 4.

The main architectural modifications of the project are:

- insulation from the outside of walls and roof
- balcony integration
- installation of shutters

Building users opinion

The work related to the improvement of the building made it possible to use the surplus of power for the production of Hot Sanitary Water. Occupants are satisfied with the passage of individual to collective hot water; this avoids multiple subscriptions and maintenance contracts.

See more details about this project



Stakeholders

Contractor

Name : GIERENS IMMOBILIER

Contact : immobilier.gierens.copro@wanadoo.fr

Construction Manager

Name : REANOVA

Contact : haroldhugonenc@reanova.fr

<http://www.reanova.fr>

Stakeholders

Function : Thermal consultancy agency

POUGET Consultants

jonathan.muller@pouget-consultants.fr

<http://www.pouget-consultants.eu/>

Function : Environmental consultancy

Contracting method

Separate batches

Type of market

Global performance contract

Energy consumption

Primary energy need : 102,00 kWhep/m².an

Primary energy need for standard building : 118,00 kWhep/m².an

Calculation method : RT existant

Breakdown for energy consumption : Heating: 62%

Domestic hot water: 26%

Lighting: 7%

Auxiliary ventilation: 4%

Auxiliaries for heating and DHW: 2%

Initial consumption : 283,00 kWhep/m².an

Envelope performance

Envelope U-Value : 0,80 W.m⁻².K⁻¹

More information :

- 16 cm of insulation on the walls,
- 25 cm of insulation at roof terraces,
- 25 cm flocking at low floors.

Renewables & systems

Systems

Heating system :

- Condensing gas boiler

Hot water system :

- Condensing gas boiler

Cooling system :

- No cooling system

Ventilation system :

- compensated Air Handling Unit

Renewable systems :

- No renewable energy systems

Environment

Urban environment

Dense and mixed environment: individual dwellings, small collectives and large complexes.

Products

Product

Low pressure ventilation

ACTHYS

Vincent Benard

<http://www.acthys-ventilation.fr/>

Product category : HVAC, électricité / ventilation, cooling

Low pressure ventilation to reuse existing individual ducts

For vents and air inlets in the housing; a witness was made so that the occupants could visit it and be informed in advance of the work that will be done in their home.



Costs

Carbon

GHG emissions

GHG in use : 31,00 KgCO₂/m²/an

GHG emissions before renovation: 52 KgCO₂ / m² / year

Contest

Reasons for participating in the competition(s)

Située à Nanterre, cette copropriété constituée de quatre bâtiments et de 64 logements a été construite en 1955. Elle n'a pas été rénovée depuis et c'est pour cela qu'en 2016, le syndicat de copropriété a décidé de procéder à une rénovation.

Ainsi, les travaux qui ont été réalisés sont :

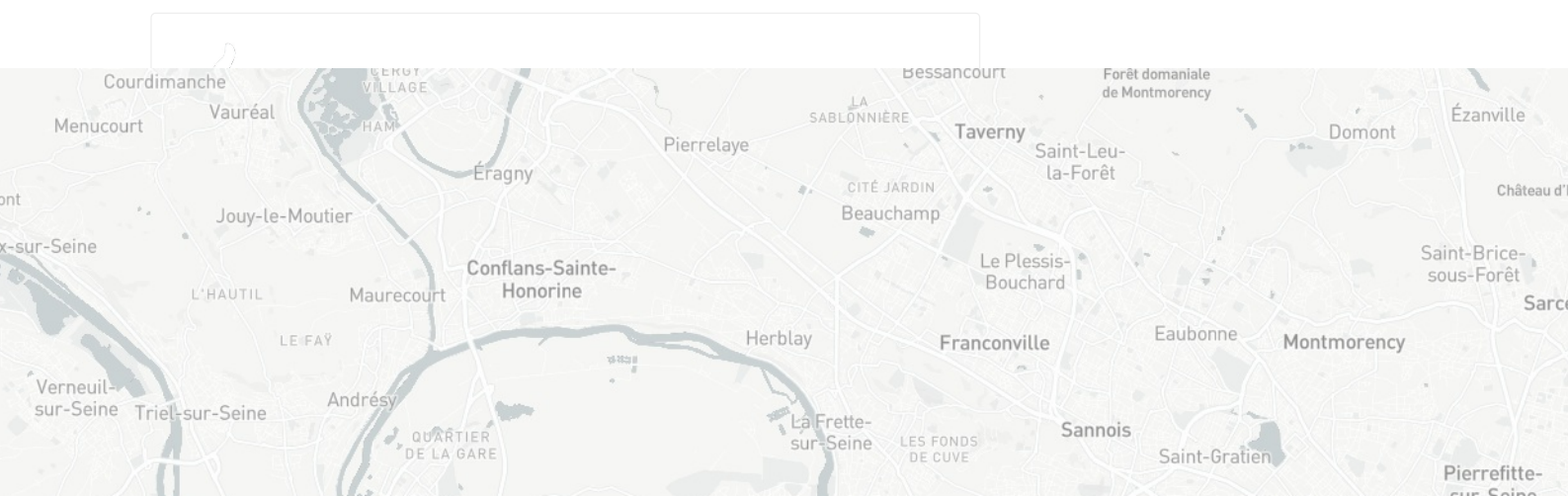
- Ventilation basse pression
- Chaudière collective à condensation
- Eau chaude sanitaire collective
- Isolation par l'extérieur des murs et de la toiture

Cela a permis de diviser par presque 3 la consommation énergétique de la copropriété en passant de 283 à 102 kWh/m²/an. La copropriété a atteint le niveau BBC rénovation sur certains aspects sans valider la labellisation par un organisme certificateur.

Building candidate in the category



Energie & Climats Tempérés





Prix des Etudiants



Date Export : 20230511095242