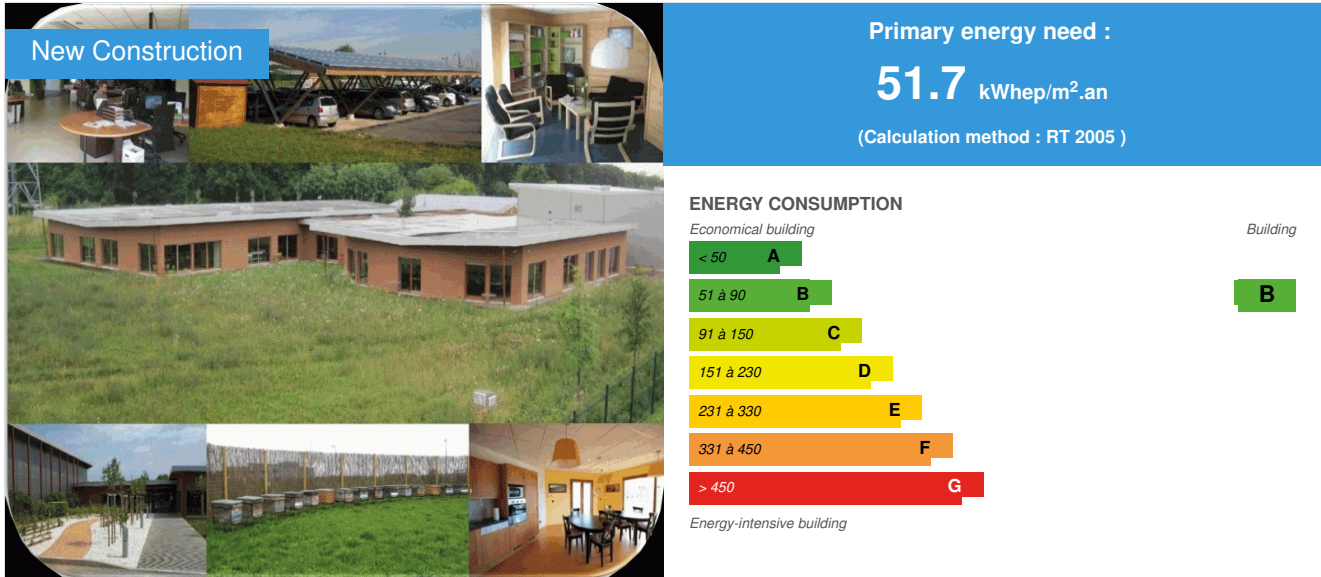


Hervé Thermique Paris IDF - Ennery Agency HQE BBC Effinergie

by [Christophe Prince](#) / 2012-03-23 12:56:41 / France / 10673 / FR



Building Type : Office building < 28m
Construction Year : 2009
Delivery year : 2009
Address 1 - street : 47, rue Ampère 95300 ENNERY, France
Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 1 434 m²
Construction/refurbishment cost : 2 850 000 €
Number of Work station : 60 Work station
Cost/m2 : 1987.45 €/m²

Certifications :



Proposed by :



General information

The agency Hervé Thermique Paris IDF is installed since 2009 in Ennery (95) on the Regional Natural Park of French Vexin which environmental requirements have been taken into account (landscaping, maintenance and enhancement of biodiversity ...). The building was certified HQE ® and BBC. Its power consumption is 51 kWh.ep / m² / year. A portion of the parking lot is covered by shade structures supporting 210 m² of photovoltaic panels. An apiary is installed at the rear of the building (15 hives). The building is also certified HQE ® Exploitation since 2010.

Sustainable development approach of the project owner

We sought through this project a compromise between environmental quality and functionality, as well as between quality of life of employees and functionality. It has always seemed to us important to take into account this balance, an employee spending an average of 6-10 hours a day on his workstation. Emphasizing the

criteria mentioned above, and at the same time wishing to stay within 15 minutes of Cergy, we started the project in the ZAE of Ennery - The doors of the Regional Natural Park of the French Vexin. NRP Environmental Charter of the French Vexin has been an important asset in the development of the project, both in terms of eco-construction and eco-management. The steps of HQE and BBC Effinergie Labelisation helped us gain recognition by a third party.

Architectural description

DUGIT-GROS & DAVAINÉ firm offered us an architectural project based on a strong environmental integration. In order to protect certain species of grasshoppers, the land is sown with seeds recommended by the NRP and broke with a maximum of twice a year. The building is wood frame with wood siding. Part of the roof is vegetated. A 10m³ tank collects roof water for sanitary use. On heating equipment and ventilation, energy is provided by a low surface heat pumps. Upstream of the central tritement double air flow is provided a Canadian well.

Building users opinion

Satisfaction surveys are conducted annually. The latest investigation is ongoing. Previous showed some improvement points for which an action plan has been implemented. User satisfaction averaged 80% on all topics

See more details about this project

<http://www.ekopolis.fr/realisations/agence-herve-thermique>

Stakeholders

Stakeholders

Function : Contractor

HERVE THERMIQUE

Patrick BERRUET

<http://www.herve-thermique.com/>

Function : Construction Manager

DUGIT-GROS DAVAINÉ

Olivier DAVAINÉ

Function : Thermal consultancy agency

THETA CLIM

Jean-Paul PAUTRAT

Function : Certification company

Certivéa

certivea@certivea.fr - 01 40 50 29 09

<http://www.certivea.fr/>

Contracting method

Separate batches

Type of market

Global performance contract

Energy

Energy consumption

Primary energy need : 51,70 kWh/m².an

Primary energy need for standard building : 152,00 kWh/m².an

Calculation method : RT 2005

Breakdown for energy consumption : Heating: 41% - Cooling: 15% - Ventilation: 2% - Auxiliary: 18% - Lighting: 24%

Real final energy consumption

Final Energy : 29,90 kWh/m².an

Envelope performance

Envelope U-Value : 0,33 W.m⁻².K⁻¹

More information :

There was no test airtightness of the envelope, but a far infrared camera, in 2010, we found thermal bridging at the framing bays, which since been corrected.

More information

2011: CVC 59% - Lighting: 11% - Office: 30%

Renewables & systems

Systems

Heating system :

- Geothermal heat pump
- Low temperature floor heating
- Others

Hot water system :

- Individual electric boiler

Cooling system :

- Reversible heat pump
- Floor cooling
- Others

Ventilation system :

- Double flow heat exchanger

Renewable systems :

- Solar photovoltaic
- Heat pump (geothermal)

Smart Building

BMS :

The building has a GTC.

Smartgrid :

The building has two levels of sub-metering, both in terms of energy consumption and consumption of water.

Environment

Urban environment

Land plot area : 12 000,00 m²

The ZAE French Portes du Vexin is on a wasteland of France Telecom, in the city of Ennery at the entrance of the Regional Natural Park of the French Vexin. The developer is SEMAVO.

Health and comfort

Water management

Consumption from water network : 98,00 m³

Consumption of harvested rainwater : 170,00 m³

Tank rainwater recovery 12 m²: supply sanitation and watering of plants inside and outside

Indoor Air quality

2011 Analysis: CO₂: 300 ppmCO <1 ppmparticules: 37 µg/m³

Carbon

GHG emissions

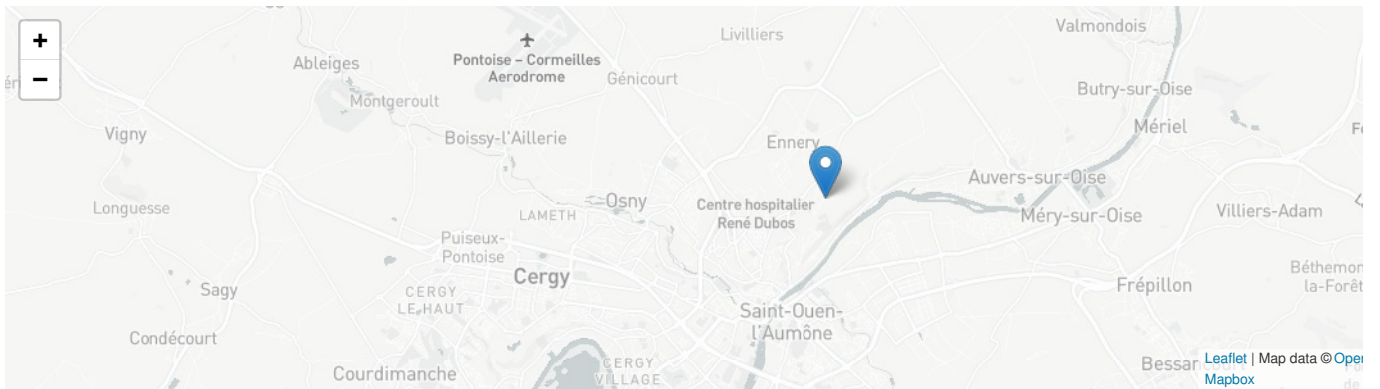
GHG in use : 105,00 KgCO₂/m²/an

Methodology used :

Carbon repository - tertiary activities Ennery website (excluding travel and lunch break)

Building lifetime : 25,00 année(s)

Contest



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