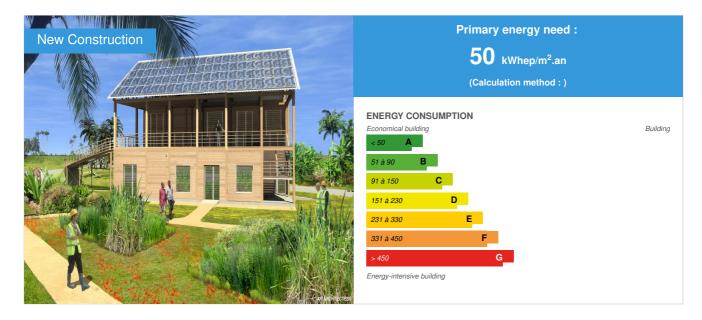


# House of the Environment in Sainte-Rose

by AR ARCHITECTES / (1) 2016-12-12 10:30:58 / France / (2) 8050 / 🍽 FR



 Building Type : Other building

 Construction Year : 2011

 Delivery year : 2012

 Address 1 - street : 97115 SAINTE ROSE (GUADELOUPE), France

 Climate zone : [Af] Tropical Wet. No dry season.

Net Floor Area : 225 m<sup>2</sup> Construction/refurbishment cost : 1 000 000 € Number of none : 5 none Cost/m2 : 4444.44 €/m<sup>2</sup>

Certifications :



## General information

The Maison de l'Environnement is a bioclimatic administrative office (tropical architecture adapted to seismic and paraseismic standards), one floor accessible to the public with a teaching room and a large terrace opening onto the large landscape.

## Sustainable development approach of the project owner

A group of services and industrial solutions specializing in sustainable resource management, SUEZ supports cities and industries in the circular economy to preserve, optimize and secure the resources essential to our future: http://www.sita.fr/

## Architectural description

The land, bordered by the Salé River to the east and the Ramée to the West, serves for the cultivation of sugar cane and pineapple. The architectural part of the

project is based on a relatively low impact of the buildings integrated into the landfill center of 250,000m<sup>2</sup>, and into the landscape. The architecture of the building is bioclimatic; It resembles that of the traditional buildings that can be found on the large agricultural or industrial farms of Guadeloupe. Thus, the House of the environment is in wooden frame, dressed of a wooden cladding and a galvanized steel roof. Landscapes, plant screens, reed beds and wetlands are local rustic species, in harmony with the surrounding crops. The project includes a private ground floor for the administration, and a level accessible to the public with a teaching room and a large terrace opening onto the large landscape. This bioclimatic building has been designed according to the HQE® approach, working on priority targets, including the harmonious integration of the building, water and energy management, choice of construction processes and products.

## Building users opinion

The occupants are entirely satisfied with the thermal comfort inside the building, the sanitary quality of the interior spaces, the visual comfort, the indoor air quality, the quality of the natural light inside the spaces Working as well as acoustic comfort.

# If you had to do it again?

We would have done the same project perfectly in harmony with its environment.

# See more details about this project

C http://www.ar-architectes.com/eco\_fiche.php?id=sainte-rose&int



# Stakeholders

Function : Contractor

SITA ESPERANCE, filiale de SITA France en Guadeloupe

cindy.loques@sita.fr

http://www.sita.fr

Function : Construction Manager AR ARCHITECTES

contact@ar-architectes.com

#### http://www.ar-architectes.com

Project management architecture, environment and landscape

Function : Other consultancy agency CCET

I.bride@ccet-outremer.com

C http://www.ccet-ingenierie-btp-antilles.com Office of studies all bodies of state

Function : Company

G.3.C Sarl

gerantgccc@orange.fr

C http://www.g3c-charpentes-guadeloupe.fr Company lots Carpentry Wood, Roofing, Cladding and insulation

Function : Company

ICM SAS

contact@icm-guadeloupe.com

C\* http://www.icm-guadeloupe.com Entreprise Générale - Lots Gros Work, Partition, Electricity, Plumbing, Flooring, Air-conditioning / Ventilation, Landscaping

Function : Company ALU Antilles stephane.aluantilles@wanadoo.fr

C http://www.alu-antilles-menuiserie.fr Company lot aluminum joinery

## **Contracting method**

Separate batches

# Type of market

Table 'c21\_maroc.rex\_market\_type' doesn't exist

# Energy

## **Energy consumption**

Primary energy need : 50,00 kWhep/m<sup>2</sup>.an Primary energy need for standard building : 200,00 kWhep/m<sup>2</sup>.an Calculation method :

CEEB: 0.0002

# Renewables & systems

## **Systems**

- Heating system :
- No heating system

#### Hot water system :

Solar Thermal

#### Cooling system :

No cooling system

#### Ventilation system :

• compensated Air Handling Unit

#### Renewable systems :

Solar Thermal

#### Solutions enhancing nature free gains :

Le bâtiment est conçu suivant les principes bioclimatiques spécifiques au climat guadeloupéen, selon l'ensoleillement et les apports de chaleur ou fraîcheur possibles : la Maison de l'Environnement est orientée Est Ouest pour capter la lumière et le solei

#### Environment

## Urban environment

#### Land plot area : 638 300,00 m<sup>2</sup>

#### Green space : 3 090,00

The project site is located in the commune of Sainte-Rose, in the south / west of the town center, on the plateau of l'Espérance. The commune of Sainte Rose is a very large municipality, located on the edge of the Atlantic Ocean, mainly pavilion. The ancient habitat is located at the edge of the ocean. This plateau, which will house the House of Environment, is bordered by the Salée River to the East and the Ramée to the West. The plot is accessible via a communal road from the RN2. The first dense dwellings area is located in the North East (Sainte-Marie subdivision), at a distance of more than 400m from the boundaries of the parcel. The site was occupied by a gross discharge in its central part of 3ha, which was rehabilitated as part of this project. The rest of the land did not include forest cover, and was used for sugarcane and pineapple crops. The fauna and flora were not very diverse on the plateau, only a few scattered trees of the evergreen forest were counted.

# Product

Frame in treated pine treated wood

Durapin

Piveteau-Bois

http://www.piveteaubois.com/fr/

#### Product category :

Frame of treated pine wood class 4, resulting from permanently managed European forests, ensuring dimensional stability, strength, mechanical strength, suitable for a hot and humid environment, and resistant to insects, termites and rot.

This product was very well accepted by all the project's stakeholders, and allowed a clean and rapid site for the assembly of the whole structure.



#### Costs

Carbon

# **GHG** emissions

GHG in use : 1 700,00 KgCO<sub>2</sub>/m<sup>2</sup>/an

Contest

# Building candidate in the category





Energie & Climats Chauds



Coup de Cœur des Internautes







Date Export : 20230727163013