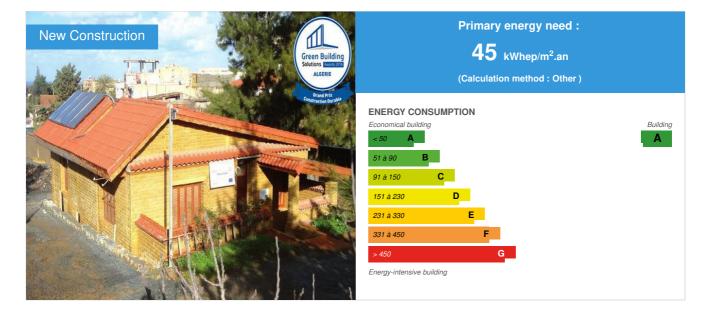
# **Rural house - CNERIB**

by Vincent Gilfaut / 🕚 2016-05-19 00:00:00 / Algérie / 💿 14828 / 🍽 FR



Building Type : Collective housing > 50m Construction Year : 2007 Delivery year : 2010 Address 1 - street : Cité Nouvelle El Mokrani – 16097 SOUIDANIA, Algérie Climate zone : [Csb] Coastal Mediterranean - Mild with cool, dry summer.

Net Floor Area : 80 m<sup>2</sup> SHON Construction/refurbishment cost : 30 000 € Number of Dwelling : 1 Dwelling Cost/m2 : 375 €/m<sup>2</sup>

Proposed by :



# General information

pilot case made by a research center under the Ministry of Housing. The purpose of this project is to replicate the experience throughout the country in rural areas and in accordance climate studied

# Data reliability

Assessor

Stakeholders

## Stakeholders

Function : Contractor CNERIB

Afrah Hamid Directeur du CNERIB afra\_hamid@yahoo.com

Thttp://www.cnerib.edu.dz research integrated in the building

# Owner approach of sustainability

The prototype, designed and produced by the National Centre for Studies and Integrated Research Building (CNERIB) in collaboration with the CDER (renewable energies development center) was selected as part of a competition launched by the MED program -ENEC (Mediterranean Energy Efficiency in Building Structure) in 2006

## Architectural description

This first experiment concerns initially rural house that will confer a new concept of sustainable housing incorporating bioclimatic architecture in its design.

## If you had to do it again?

Duplicate operation across rural areas of Algeria

## Building users opinion

a completer

Energy

## **Energy consumption**

Primary energy need : 45,00 kWhep/m<sup>2</sup>.an Primary energy need for standard building : 140,00 kWhep/m<sup>2</sup>.an Calculation method : Other CEEB : 0.0032 Final Energy : 50,00 kWhef/m<sup>2</sup>.an Breakdown for energy consumption : 40 AIR HEATING 5

# Real final energy consumption

Real final energy consumption/m2 : 50,00 kWhef/m<sup>2</sup>.an Year of the real energy consumption : 2 009

## Renewables & systems

## **Systems**

## Heating system :

- Gas boiler
- Low temperature floor heating

#### Hot water system :

Solar Thermal

Cooling system :

No cooling system

#### Ventilation system :

Natural ventilation

#### Renewable systems :

Solar Thermal

Renewable energy production : 54,00 %

Environment

## **GHG** emissions

Methodology used : to calculate

# Water management

a completer

# Indoor Air quality

EXCELLENT

# Comfort

Health & comfort : a completer Measured indoor CO2 concentration : completer Calculated thermal comfort : completer Measured thermal comfort : completer Acoustic comfort : complete

## Products

## Product

CNERIB

CNERIB

CNERIB

#### HTTP://cnerib.dz

Product category : Génie climatique, électricité / Chauffage, eau chaude a completer

a completer

## Costs

Urban environment

a completer

Contest

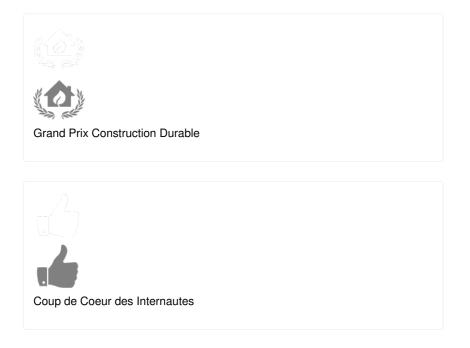
Building candidate in the category













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