



Energy efficiency



FIRST HQE-CERTIFIED BUILDING ON AFRICAN CONTINENT

The Headquarters of the BNP Paribas El Djazaïr bank in Algiers, Algeria, were delivered in September 2015, the first building on the entire African continent to be certified according to the French high environmental quality standard for tertiary-sector buildings.

The Sustainable Building passport delivered by Cerway (international subsidiary of Certivéa) achieved the Very Good level.

With 5 targets reaching the "very performing" level (Excellent Practices), 7 the "performing" level (Best Practices) and only 2 the "basic" level (practices corresponding to regulatory provisions), this project by far exceeds the minimum requirements for HQE certification.

Further to the 3-year construction period, this certification compensates the work carried out by all of the stakeholders involved, including the Artelia Group which was well-represented.

A LOCAL CONTEXT ENCOURAGING A NEW APPROACH

Many aspects which are well-managed today on our HQE construction sites in Europe were relatively new to Algeria. Nevertheless, thanks to the strong commitment of all players, appropriate solutions were implemented.

The most noteworthy example concerns the waste management of the building site since there is no structured sorting industry for construction waste in the surroundings

of Algiers. The company CFE, however, managed to reduce the quantity of landfill waste by about 25%.

- About 10% of waste was reused on the worksite (to build workbenches, footstools to secure the site and handling tools) or given to individuals, favoring a circular economic approach (waste in the form of wood or metal can represent a resource for someone who is building his own house, for example),
- 15% of waste was recycled (metal, wood, cardboard, paper).

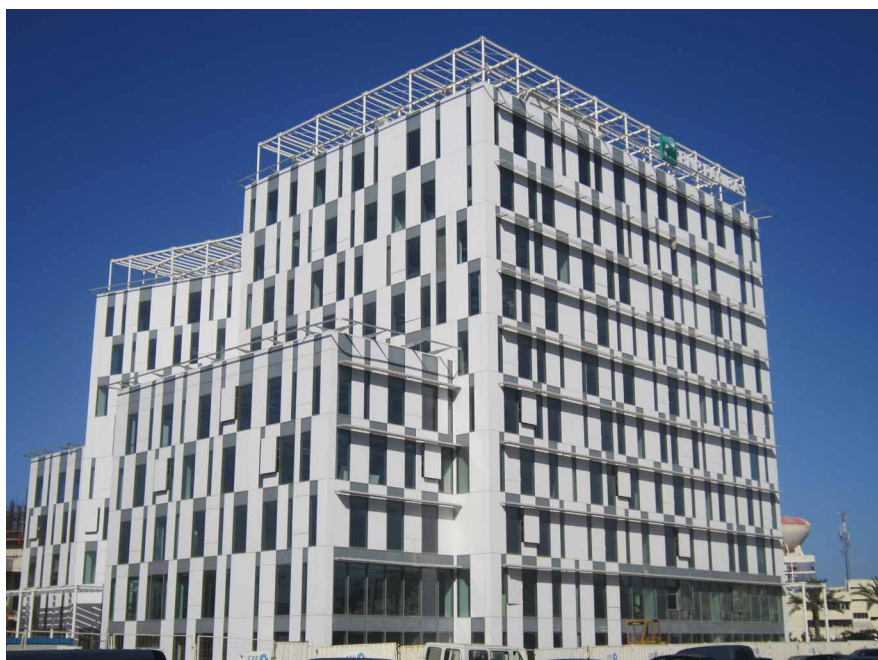
The energy performance of this project is likewise remarkable. As a gas-exporting country, energy in Algeria is almost free, and issues related to energy performance are relatively new and are not yet part of a regulatory framework. From the design phase onwards, the project team decided to base itself on the French thermal regulation standards (RT 2005 in effect at the time). At hand-over, the building had reached an energy performance level 20% higher than that of a reference building.

THE ARTELIA PROJECT TEAM

- Artelia International and Sogreah Algeria – Assistance to the Owner/ Project Management & Construction Management: Gabriel Elias, Stéphane Buriand, Patrick Lorenzini, Amaury Berroche, Lies Mahdi, Imane Tayeb, Imane Mezoued, Samah Zouaoui
- Artelia's Building Construction & Industrial Facilities Sector / Sustainable Development Department – Assistance to the Owner/Project Management for HQE: Fabien Vergne

A FEW ILLUSTRATIONS

The building ready in Algiers



Mezzanine floor



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