

# eco-renovation of the Technical center in Metz - France



## INDUSTRIAL site, HQE® APPROACH : TECHNICAL center

Client	City of Metz
Location	Metz (57)
Project	Tertiary building "A" renovation HQE®
Mission	Design concept and follow up mission, architecture HQE® and landscaping.
Designer/contractors	AR ARCHITECTES, VERDI Grand Est
area	1 200 m <sup>2</sup> area
cost	1 214 K€
SCHEDULE	Competition 2017



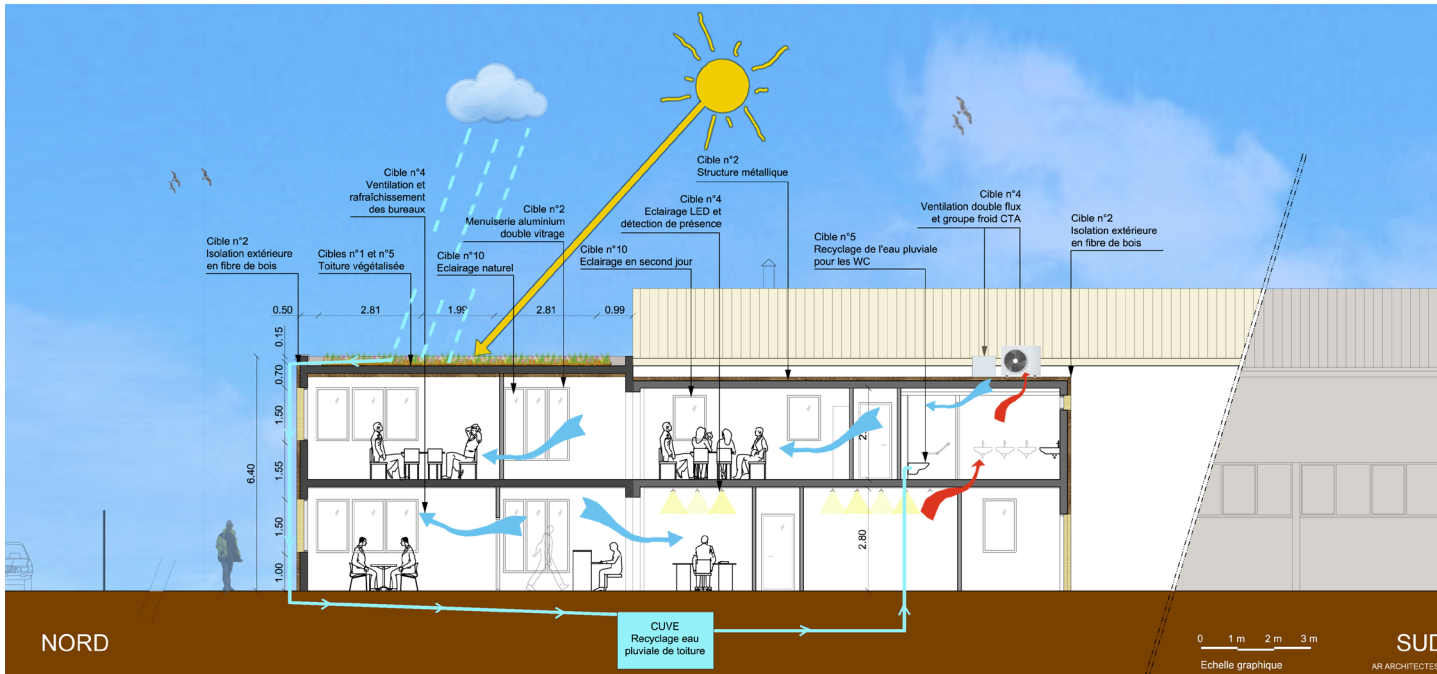
CTPU mass plan



View on the technical center from Dreyfus Dupont street

Metz city's objective was to renovate the Urban Technical Center, located in an industrial area, in the north of the city, and more precisely the renovation of the administrative and staff building "A" for administrative and security staff. AR ARCHITECTES designed an eco-project, functional and coherent with external spaces. The building includes vertical cladding to give more height.





HQE® section integrated to the tertiary building.

**HQE® targets:**

**Target 1 : Harmonious relationship between the building with its surroundings:**

- Architectural treatment of the administrative and staff building offers from Dreyfus Dupont street vertical rhythms: sometimes metallic, sometimes painted. These materials variances gives more height to the building, taking into consideration the local environment.
- Entrance and exit managed by a double access.

**Target 2 : Choice of integrated products and building materials:**

- Choices of materials for their durability, their adaptability and the easy maintenance of the construction.
- Exterior insulation with wood fiber panels.
- Exterior plaster and recyclable metal cladding.
- Prefabricated metallic structure for the administrative and staff building extension.

**Target 4 : energy management:**

- Natural light in all the workspaces.
- Double glazed aluminum carpentry.
- Mechanical ventilation system dual flow.

**Target 5 : olfactory comfort:**

- Olfactory comfort is ensured by an interior vegetalized wall in the reception hall.

**Target 6 & 7 : Hygrothermal and acoustic comfort:**

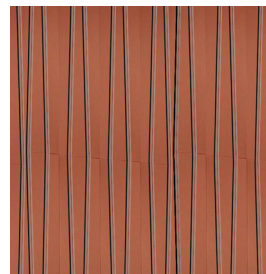
- Thermal and acoustic comfort are guaranteed by the green roof on the top of the building.

**Target 8 : water management:**

- Rainwater management by green roofs.
- Rainwater coming out of the roof is stored in a tank. Water is pumped for irrigation and cleaning..



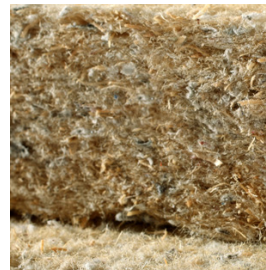
View on the inside hall and the green walls.



Aluminium cladding



Green roof



Wood fiber insulation



Hemp wool insulation

