

Day 3

Renovation and Circular Economy:

Materials at the Heart of the Transition towards a Sustainable buildings

Seminar held in English

Wednesday 17th January 2024

At Maison de la Poste, Gare Maritime

Tour & Taxis – Rue Picard 7, 1000 Brussels

AFTERNOON

13:30 - 17:00 | Guided Tours of Sustainable Buildings

Group 3 – 'Centre'

Multi



This is a large-scale conversion project fraught with urban challenges: redefining an emblematic modernist office building of 45,120 m² and creating an urban connector by opening up the base and connecting it to the public space, in particular via an accessible urban platform and a gradation of public and private functions.

The urban dynamic underpins the social vocation of the project by acting as an urban signal linking the site and its activities.

The project is distinguished by an ambitious and precise objective in terms of reuse and the preservation of a maximum number of components. The ambition of large-scale in-situ reuse is innovative and should inspire similar projects. One key to success is the involvement of the circular economy partners from the preliminary design stage.

OXY



The project will transform the Centre Monnaie building. It will reduce the surface area allocated to offices and create 120 flats, a 316-room hotel and a public interest or public service facility. Two additional levels will be added. The plinth and basement have also been partially modified. The project takes a cross-disciplinary environmental and energy approach (BREEAM Outstanding/WELL Platinum/NZEB).

- Circularity through flexibility and re-use

The project is designed to enable the building to be adapted, upgraded, flexible and deconstructed in the future, while creating a new connection with the neighbourhood. The strategy of circularity is based in particular on the massive conservation of the existing building, the flexibility of the layouts and the design of the new structures (great height/open plan/strategic positioning of circulation and technical passages).

- Decarbonised energy concept

The aim is to achieve the "Carbon Hero - A label" (One Click LCA benchmark), a carbon-neutral approach focusing on carbon-free materials and techniques. The principles? The preservation of more than 80% of the building's elements, the recovery of reusable elements and their integration into the project (>4% total input), the recycling of 90% of demolition waste and the installation of carbon-neutral heating and cooling systems.

AG Campus



The project consists of renovating a ground floor into a modern learning and meeting centre in an office building.

Densifying the city on top of the city by integrating comfort, not only technical and energy comfort, but also living comfort that is well achieved is very interesting.

This is a fairly traditional tertiary sector project, but one that fits perfectly into its context. The densification has been achieved with great architectural intelligence, and the spaces are organised around the garden and new external patios, which bring transparency and clarity to the project.

By embodying an open space, with fluid circulation, where the amount of natural light is well controlled and where everyone can connect with others, the project offers a beautiful workspace for future users and reflects AG's ambition to have a culture where learning is omnipresent in the organisation.

The project is also exemplary in its environmental approach, particularly in terms of materials, well-being, comfort, health and building management. Aspects relating to water management and biodiversity are also very good.

As far as circularity is concerned, the project demonstrates an interesting approach by offering, among other things, a certain diversity of office spaces and, therefore, good flexibility of use.

AG Campus represents a clear signal of both environmental and human sustainability for the renovation and creation of modern learning and meeting centres.