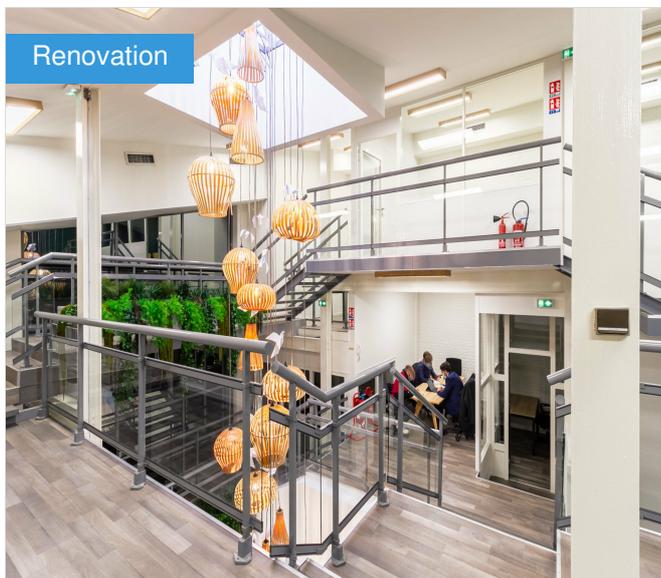


The Transitions Workshop

by Léa Credidio / 2022-04-19 00:00:00 / France / 1784 / FR



Renovation

Primary energy need :
kWhep/m².an
(Calculation method :)

Building Type : Other building

Construction Year :

Delivery year : 2022

Address 1 - street : 78 Rue Jeanne d'Arc 76000 ROUEN, France

Climate zone : [Cfb] Marine Mild Winter, warm summer, no dry season.

Net Floor Area : 478 m² SHON

Construction/refurbishment cost : 320 000 €

Cost/m2 : 669.46 €/m²

General information

Two years after the publication of the law for the orientation of mobilities (which aims to deploy daily transport solutions that are easier, cheaper and cleaner), the Rouen Normandy metropolis commissioned Atelier Infini to renovate a bank and a shop into a bicycle station on the ground floor and into offices for the ecological transition on the upper floors.

The objectives of the project were raised: a **qualitative and warm eco-responsible interior design** that promotes local craftsmanship and Norman artists. To accomplish this mission while minimizing the environmental impact, Atelier Infini, a young and committed architectural firm from Rouen (winner of the 2018 Créactifs competition), integrated **reuse** as much as possible into the entire rehabilitation process.

After a thorough inventory of the building's resources, the city reused the radiators, the floor, the railings, the hanging baskets and the toilets. Some of the furniture came from other buildings: an old reception desk, office chairs, lockers, a fridge, sofas and chairs. And the last part was provided by Burod'oc, a Norman company that sells second-hand furniture.

The result of the operation: **3.2 tonnes of waste avoided and more than €25,085 saved**.

But this is not the only eco-responsible aspect of the building: all the paints used are VOC-free, the energy-consuming ceiling lights have been replaced by LED ceiling lights made from wood from eco-managed forests (manufactured in France from wood from forests managed by Kraken Lighting). The central suspension, a major element of the project, is also made from eco-managed forests and manufactured by a Rouen-based craftsman, Arturass.

For this suspension, Atelier Infini wanted to show the flight of the companies of the ecological transition, symbolised by paper swallows rising towards the zenithal light of the building.



Credits: Atelier Infini (design), Arturass (photography)

Finally, several artists' frescoes are present in this project in order to enhance the place under the themes of cycling and energy transition.

Photo credit

MATPIXStudio for photos

Arturass for a photo too

Tanguy Brohart for the outlook

Please mention them if you share these images

Stakeholders

Contractor

Name : Entreprises liées aux appels d'offre de la métropole

Contact : ludivine.perroux[a]metropole-rouen-normandie.fr

<https://www.metropole-rouen-normandie.fr/>

Construction Manager

Name : Atelier Infini

Contact : lea.credidio[a]atelierinfini.fr

<https://www.atelierinfini.fr/>

Stakeholders

Function : Manufacturer

Kraken Lighting

contact[a]kraken-lighting.fr

<https://kraken-lighting.fr/>

Eco-responsible led panels

Function : Company

Arturass

arturas[a]arturass.com

<https://www.arturass.com/>

Custom-made luminaire made from wood from eco-managed forests and linen thread cable

Function : Company

Studio VG.tal 3Design

contact[a]vgtal3design.fr

<https://mur-vegetal-interieur.fr/>

Installation of stabilized plants

Function : Company

Catcharts

fanny.sessou[a]catcharts.com

<https://catcharts.com/>

Linking an artist for a mural

Energy

Products

Product

Kraken Lighting

contact[a]kraken-lighting.fr

<https://kraken-lighting.fr/>

Product category : Second œuvre / Équipements intérieurs



Circular Economy

Reuse : same function or different function

Batches concerned by reuse :

- Locksmithing-Metalwork
- Floorings
- Plumbing
- others...

For each batch : Reused Materials / Products / Equipments :

1. Flooring (laminated parquet, clip-on installation): 22 m² + 3 radiators + 2 hanging rails + 2 bodyguards = Reuse in situ.

2. Furniture lot: Re-use from the city's storage furniture:

- Reception desk
- Wooden chairs (x4)
- Pallet coffee table
- Armchairs (x2)
- Sofa
- Wooden rgt furniture
- Bike rack (x4)
- Curtain cabinet (x2)
- Corner desk
- Lockers (x2)
- Bench

- Wood and fabric chairs (x2)
 - Office chair (x6)
 - Lockers
 - Letter box set
 - White chairs (x4)
 - Kitchen table
 - Fridge
 - Large pallet table
 - Plastic sorting bins (x2)
 - Reception desk
 - Wooden chairs (x4)
 - Pallet coffee table
 - Armchairs (x2)
 - Sofa
 - Wooden rgt furniture
 - Bike rack (x4)
 - Curtain cabinet (x2)
 - Corner desk
 - Lockers (x2)
 - Bench
 - Wood and fabric chairs (x2)
 - Office chair (x6)
 - Lockers
 - Letter box set
 - White chairs (x4)
 - Kitchen table
 - Fridge
 - Large pallet table
 - Plastic sorting bins (x2)
3. Burodoc furniture lot: Second-hand furniture collected by a local actor:
- Office chair (x14)
 - Metal cupboard
 - Meeting chair (x15)
4. Wood batch: Reuse of pallets for 6 podiums: Reuse of 6 pallets.

Field of use and material origin :

Flooring :

- Reuse of in-situ flooring (moved to another part of the project).
- Quantity: 22m².
- For this project we had to connect an old small shop (22m²) to the premises. The little shop had a different floor covering. In order to standardize the whole, I proposed to the MOA to reuse the floor of a storage space identical to that of the reception (this storage space was 25m²).
- Bonus: The MOA also hesitated to replace all the flooring because there were signs of wear. I proposed to install signaling stickers at the level of the marks in order to camouflage them and avoid changing the whole floor (major economic gain, ecological gain and time saving on the site).

Suspensions:

- 2 suspensions were moved and repositioned in another location.
- Also in this old shop, there were two designer pendant lights that I reused to put above the reception desk.

The radiators:

- Reuse of two radiators.
- Following the interior reorganization, radiators were moved and then reused on site.

Metal railings:

- Two metal bodyguards were reused during the new layout. They were moved from the ground floor to the first floor.

Reuse pallet wood:

- Pallet wood was reused to make the 6 podiums for the bikes.

Furniture:

- Almost all of the furniture is reused.
- Some of the furniture comes from other MOA buildings: an old reception desk, office chairs, lockers, a fridge, sofas, chairs. And the last part is provided by **Burod'oc**, a Norman actor, who sells second-hand furniture. Technical furniture for repairing bicycles does not come from second-hand furniture.

Environmental assessment

Impacts avoided : water, waste, CO2 :

The calculation of the radiators is missing. Some furniture is not present, such as the lockers, the sofa and the two armchairs. Office armchairs have been replaced by chairs in the calculation table.

	CO2 évité (kg)	Consommation Eau évité (m3)	Déchets évités (kg)
TOTAL	3927,901688	2941,218993	3346,40386
	Km en petite voiture	Nb de Baignoires rectangulaires	Nb d'années de déchets ménagers d'un Français
Equivalent	31423	19608	7
Equivalent trajet Paris- Nice	36,0		

Internally we had made an economic and ecological assessment: 3.2 tons of waste saved and 25K€ saved thanks to the reuse of materials and furniture compared to new.

Economic assessment

Total cost of reuse : 3 645 €

Saving realised thanks to the implementation of reused materials compared to new materials : 25 035 €

Social economy

Social economy and professional integration :

The metropolis wanted the intervention of two artists for mural frescoes around the subjects of mobility, cycling and the greening of the city.



Contest

Reasons for participating in the competition(s)

First exemplary interior design mission for the metropolis by integrating the reuse of building materials:

- Reuse of the floor on the ground floor of a storage space (former bank safe) to connect a shop and the old bank and have the continuity of the same floor.

Previously, everything would have been thrown away.

- Reuse of sanitary facilities (only the glasses have been changed), ditto, it is an effort for the MOA not to throw everything away.
- Reuse of the radiators, they have been replaced, cleaned.
- During the removal of the old shop, suspensions were kept and then reused for the reception terminal.
- Effort also by the MOA to reuse their own furniture: reuse of a reception terminal, reuse of furniture from an old building: fridge, chairs, coffee table, tables, office chairs, etc.
- Then the MOA agreed to buy second-hand furniture and not new furniture!
- Finally, beyond reuse, it is a collaborative project, with the integration of artists and craftsmen in the project.

Building candidate in the category



Prix du public



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