

ARCHITECTURAL HERITAGE RESTORATION OF THREE PAVILIONS, SECURING ACCESS TO POTABLE WATER IN MONSTOURIS RESERVOIR (75014) - FRANCE



INDUSTRIAL SITE : RESTORATION, PRESERVATION OF HERITAGE SITE, SECURING ACCESS TO POTABLE WATER

PUBLIC BUILDING	Eau de Paris
LOCATION	Paris (75 014)
PROJECT MISSION	Architectural restoration of three pavilions and the walkway, securing access to potable water in Montsouris reservoir
CONSULTANTS	AR ARCHITECTES, BOST INGENIERIE, EUROELEC SMART ENERGY
AREA	Pavilions between 50 and 80m ² Plot 50 025 m ²
COST	2 800 k €
DATE	Studies in progress



Restored South-West and South-East pavilions, Avenue Reille - Projected state



Bioclimatic mass plan of the site

The project is to **restore three pavilions**, constructed in early 1900, and to **secure the reservoir** as well as the restoration and **enhancement of the built heritage**. This mission aims to secure access to potable water and restore the three pavilions to their **original state**. A complete replacement of the joinery is planned to improve the **management of the building's humidity level** and increase its **sustainability** over time. Inside of the pavilions, each access to the water will be secured using a transparent secured glasshouse, using the architectural language of the pavilions. The exterior accesses as well as the walkway are also restored.

The project seeks to restore the historical particularities of the site while maintaining its **integration into the urban environment**.



West Pavilion - West Facade - Existing state



West Pavilion - Restored West Facade - Projected state



South-West Pavilion - East Facade - Existing state



South-West Pavilion - Restored East Facade - Projected state



Antefixes lion heads restored to original state



Millstone support joints restored to original condition



Polychromy of original restored shades in projected condition

HQE® targets

TARGET 1 : HARMONIOUS RELATIONSHIP OF THE BUILDING WITH ITS ENVIRONMENT

- Restoration of the **original aesthetic** in terms of polychromy and materials,
- Replacement of slate covers **identically**,
- Replacement of joinery according to original templates.

TARGET 4 : ENERGY MANAGEMENT

- Improvement of the insulation of pavilions and **regulation of humidity** by the use of **anti-UV glazing**.

TARGET 5 : WATER MANAGEMENT

- Restoration of the **continuity of rainwater drainage** and cleaning of existing installations.

TARGET 2 : CHOICE OF INTEGRATED PRODUCTS AND BUILDING MATERIALS

- Implementation of steel joinery.
- Use of **lime coating** for the restoration of joints of millstones and bricks on facades.

TARGET 7 : MAINTENANCE MANAGEMENT

- Implementation of **high-performance, long-term and secure steel joinery**.
- Restoration of the **waterproofing of structures** to ensure their durability over time.

TARGET 10 : VISUAL COMFORT

- Visual comfort from the inside: **brightness** is preserved for industrial operator.

TARGET 12 : HEALTH QUALITY OF SPACES

- **Securing drinking water installations**.
- Reduction of temperature variations.
- Securing water quality controls.

TARGET 13 : AIR HEALTH QUALITY

- **Improved air quality** in pavilions through **paint decontamination** and the addition of a **ventilation system**.





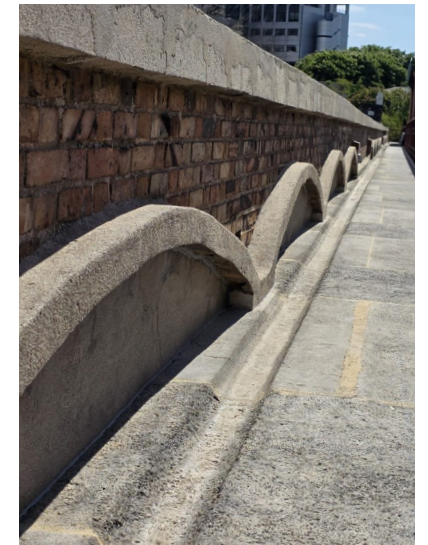
West Pavilion - Restored West Facade



West Pavilion - Restored North Facade



Lime plaster joints in an off-white shade of gray for the restored retaining walls, laid in a straight, geometric pattern along the contours of the rubble stones. Joints for the exterior tiling (glazed bricks, brick frieze) are finished with lime plaster in RAL 1013 (pearl white).



Metal framework restored to its original condition - RAL 6012 color
 Joinery replaced with new ones - RAL 3012 color
 Lion head antefixes restored to their original condition - RAL 6034 color

Access to the water secured using a transparent secured glasshouse, using the architectural language of the pavilions

The walkway restored.

