## CASE STUDIES

## POSTE-NATION - PARIS

Poste-Nation is an infrastructure building housing an electric transformer located in Charonne, Paris. The design project's primary aim was to transform the building into an "ecological transformer" with parallel functions for education. These proposed new functions were:

A "recycling center" in the basement floor where donated clothes and plastic can be turned into energy to power the building.

Underground geo-thermal energy alternative for heating to save energy.

Ground floor with a remarkably high ceiling and the mezzanine designated as a digital fabrication "fab-lab" with shared study areas for students. Accommodation for the students is located on the first floor.

On the second floor is a proposed "tech corner" where students or young professionals can meet and share knowledge and experience on the latest technological developments in daylight solutions.

Two wind turbine trees to power the electrical car charging units located in front of the entrance.

The most noticeable intervention to the building was the ET-FE (Ethylene tetrafluoroethylene) facade, a transparent double-layered system to reduce energy consumption from heating needs. In the daytime, the conserved facade would still be visible through the additional facade's transparent layers.

During darker hours of the day, the same layers would enhance the building's new function by reflecting the light coming out of the openings on the inner facade. The ETFE layer also covers the building terrace and opens the area for use, allowing daylight to penetrate into building through the skylight over the atrium and light shafts. JVL STUDIO

















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Basement Floor recycling energy

















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Ground Floor 3d printing / fab-lab









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Mezza educa











Accommodation for the students is located on the first floor.

















Level 2 tech corner / experiencing daylight solutions





On the second floor is a proposed "tech corner" where students or young professionals can meet and share knowledge and experience on the latest technological developments in daylight solutions.











daylighting / coffee shop terrace















Facade

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Roof Terrace daylighting

Level 2 tech corner

Level 1 short term accommodations



Mezzanine educational-shared study areas

Ground Floor 3D printing-FabLab

Basement Floor Recycling Energy























## JVL STUDIO

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