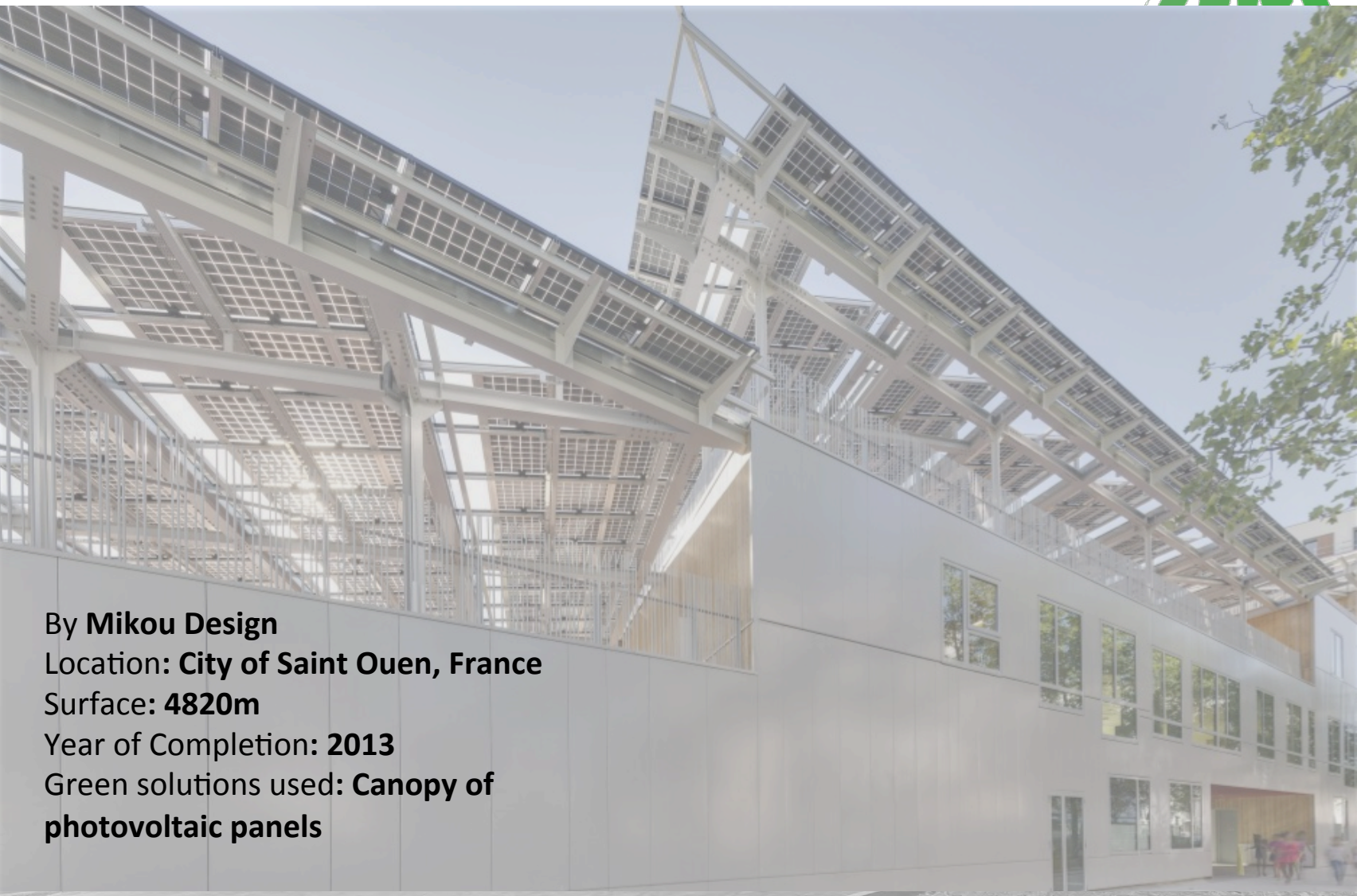


Case Study: The Zero Energy School



By **Mikou Design**

Location: **City of Saint Ouen, France**

Surface: **4820m**

Year of Completion: **2013**

Green solutions used: **Canopy of photovoltaic panels**



The Docks school in Saint Ouen is in a strategic urban location, in the middle of the Zac des Docks mixed development area, which an exemplary case of sustainable urban development.

Located in the middle of an urban complex composed mainly of high-rise office blocks and housing, it will also be visible because of its roof, a fundamental feature of the project onto which the openings of neighbouring buildings face.

Architects designed this amenity to consume zero energy in order to be emblematic of the sustainable development of the Zac des Docks project and to be a strong architectural landmark in its neighbourhood, which is exemplary by its choice of siting, by the interior comfort provided for the children – particularly in the design of the school playgrounds and gardens – and by the treatment of the areas of photovoltaic panels, which are integrated into the architecture and are visible from the main street, giving the school a strong educational identity.



The building's siting facilitated south-facing orientation of all the classrooms and playgrounds in order to make the greatest possible use of passive solar energy. This spatial disposition also made it possible to increase the surface areas on the south required for the photovoltaic panels which were integrated into the architecture of the covered playground areas.



Therefore the scheme is in the form of a mass built in stepped tiers on the east, on the main street, which is extended by large canopies and which folds in crosswise strips on the site's diagonal to face southwards.

Facing southwards, the school is arranged in a succession of gardens and volumes in brightly-lit terraces which gradually descend to free the view and to let in maximum sunshine.



Structural Engineer: BERIM

Services Engineer: BERIM

Quantity Surveyor: SLETEC

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Main Contractor: URBAINE DES TRAVAUX / GROUPE FAYAT

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