

# Odysée Pleyel

Site: Hall de Décuvage Pleyel, Paris-St-Denis



Reinventing  
Cities

**Project Summary** Reflecting the historical industrial heritage of Saint-Denis, the *Odyssee Pleyel* project showcases thought-leadership in the global clean energy transition in a quest to become a carbon-neutral development. The Odyssee Pleyel bears witness to the human, technological and cultural achievements of this area.

The Energy Plug building is an excellent example of reinventing a former industrial site into a reflexive building of the future. Through the innovative modular design, incorporating wood construction principles, the building will generate its own renewable energy becoming entirely self-sufficient and thus carbon-neutral.

The vertical productive glasshouse combines a solar canopy with innovative technologies representing a new living concept, equipped to meet the needs of the world's major cities. Science workshops for young people will aim to stimulate interest in new careers in green industries and the environment. In the innovation studio, start-ups, industrial partners and NGOs will test and share their solutions for clean energy, climate change and sustainable urban development. The great hall hosts eco-friendly sport- and cultural events together with ambitious art programs. A socially-inclusive restaurant will provide a welcoming environment for people to meet.



## Key Components & Solutions

→ The Odyssey Pleyel project proposes a **zero-carbon retrofit** of an industrial building in order to demonstrate low-carbon innovation.

→ The project has a very high energy efficiency performance using hybrid photovoltaic and thermal solar cells allowing for rain water recuperation. Zinc-air batteries will be used for energy storage.

→ The new-build share of the construction will be entirely of wood and therefore store carbon from within. Excavated soil from the Grand Paris transport project will be reused and integrated within the construction process.

→ A key focus of this project is to stimulate ecological innovation by hosting scientific workshops, providing a space for clean energy start-ups, facilitating educational programs for local schools and the organization of a "You are energy" annual festival.

## Main members of the team

Team leader: EDF SA  
Architects: JAKOB+MACFARLANE  
Environmental expert: SETEC BATIMENT



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