

Achères, a train station with high ecological standards

2009 - Whole of France / Isle of France

Achères

Thématiques

BIOCLIMATIC ARCHITECTURE - BUILDING

Materials

WATER - SANITATION

Rainwater management - collection

ENERGY

Solar

Lightning - Illuminations

LABELS - CERTIFICATION

TRANSPORTATION - MOBILITY

Summary : Achères train station has been entirely rehabilitated to become a station meeting high ecological standards.



Achères train station (Ile-de-France region), which SNCF manages, has been entirely rehabilitated to work as a lab to test various green innovations for the first time. This station will also become the first French station to follow the HQE© approach.

Technical solutions include :

- * Setting up of a 175 m² photovoltaic membrane on the main building's roof. The energy produced will be sold, yet it will represent the equivalent of 25% of the total energy consumption within the station. Additional solar panels will produce hot water.

- * Choice of ecological insulating material offering high performances (using honeycomb clay building block)

- * Green roof

- * Reversible air to water heat pump

- * Double-glazed window with low-E glass and argon gas fill
- * Motion detector and photosensitive cell for an automatic light control in offices and public spaces
- * Rainwater collection for a 59% reduction of water consumption
- * Solarspot© tube to light up the underground passageway
- * Accessibility improvement (disabled people and travellers with luggage or baby-carriage).

These technical choices should enable a 64 % energy reduction (as compared with the former infrastructure) and a 84% CO2 reduction.

Brézillon was in charge of the project and AREP (a SNCF subsidiary company) managed and carried out studies. The project's overall cost reaches 3.2 million euros. 57% was financed by the Ile-de-France Region, 40% by SNCF and 3% by RFF (Réseaux Ferrés de France).

Liens

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