eco-renovation of the waste treatment plant in sarcelles (95) - France Terre de sarcelles @

INDUSTRIAL SITES, ARCHITECTURE AND LANDSCAPING: WASLE treatment and Valuation

CLient SIGIDURS site Sarcelles (95)

Eco-renovation of the waste treament project

plant in Sarcelles (95)

AR ARCHITECTES, VERDI **Design Built**

BG INGENIEURS CONSEILS

mission Architectural and landscaping eco-

> design 30 000m3

PLot area BUILDING GROUND

clearance 10 050m² COSt

9 000 000 euros Competition 2019 **Date**



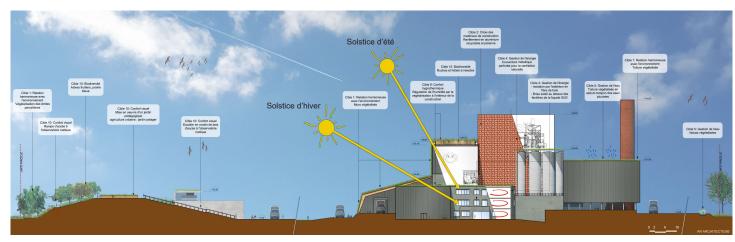
Master plan



Aerial perspective - North West view

The architectural, landscaping and environmental aspects of the SIGIDURS Energy Recovery Centre renovation project revolve around three key ideas:

- 1. To homogenize the different buildings and volumes of the Centre in order to show a single architectural unit: create a grey base.
- 2. To highlight the process area which represents the heart of the plant and the SIGIDURS approach; create a a coloured perforated metal envelope reminding the old brick used in the city.
- 3. Intensively plant the plot and plant with the ambition to create a sustainable green design perfectly integrated into its surroundings.



Section of the Bioclimatic concepts



Concrete coating



Red grassland

Concrete coating Vegetated roof Eco materials - buildings





Knoll Eco materials - landscape





Vegetated wall



Yellow grassland



Alveolate slabs



Aerial perspective - South West view

Les ciBLes Hoe® traitées

TORGET 1: HORMONIOUS relation of the Buildings With their immediate environment

- Highlight the process area with green roof, walls and land. Enhance the relation with the surroundings.
- Views on naturel areas: green roofs and walls.
- Use of eco-materials with a low impact on the environment. Harmonious integration of the plant into the near and far landscape.

TORGET 2: integrated construction process

- Steel structure, a long-lasting, easy-to-maintain material that can be adapted as requiered
- Exterior insolation with wood fibre panels
- · Recyclable aluminium cladding.

TORGET 4: energy management

- Thanks to its **insulation**, the operating building has a **good inertia** and reduces its energy consumption.
- Natural lightning and ventilation of the process area thanks to the facade openings.

TORGET 5: Water management

- The green roof and walls manage the rain water.
- The alveolate slabs manage the heavy road runoff water.
- The water overflow is collected gravitionally towards planted ditches.

TORGET 8 OND 9 : OPTIMIZED HYGROMETRIC comport and acoustic comport

- The wood fibre insulation brings hygrometric and acoustic comfort into the building.
- An acoustic wall made of gabion guarantees acoustic comfort around the site.

TORGET 10: OPTIMIZED VISUAL COMFORT

- Green Wall on the West facade: reduces air pollution, installation of a water network, **plantations** adapted to the weather conditions.
- The plant is designed as a green park giving a satisfactory view to the inhabitants.

