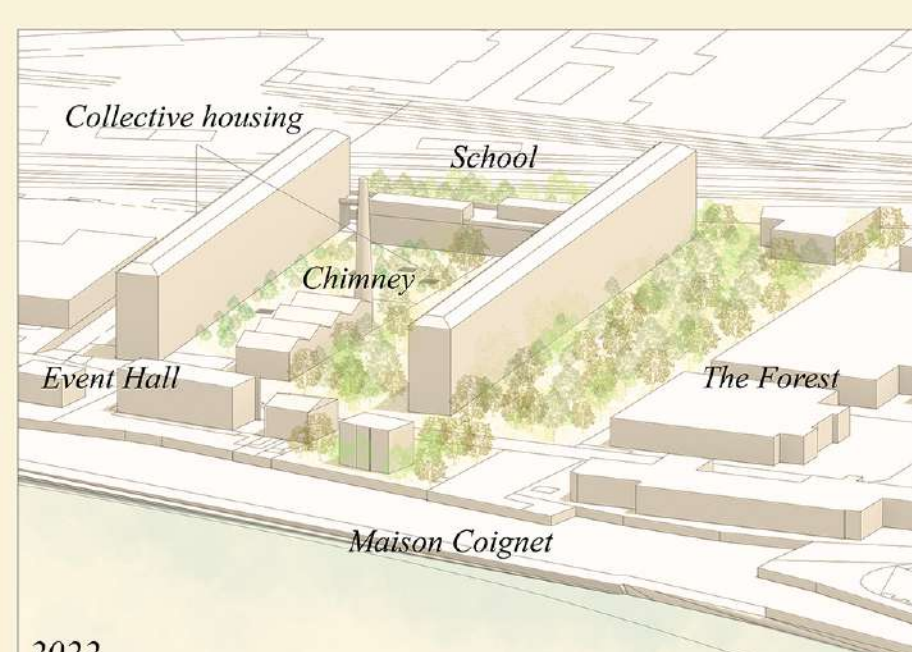
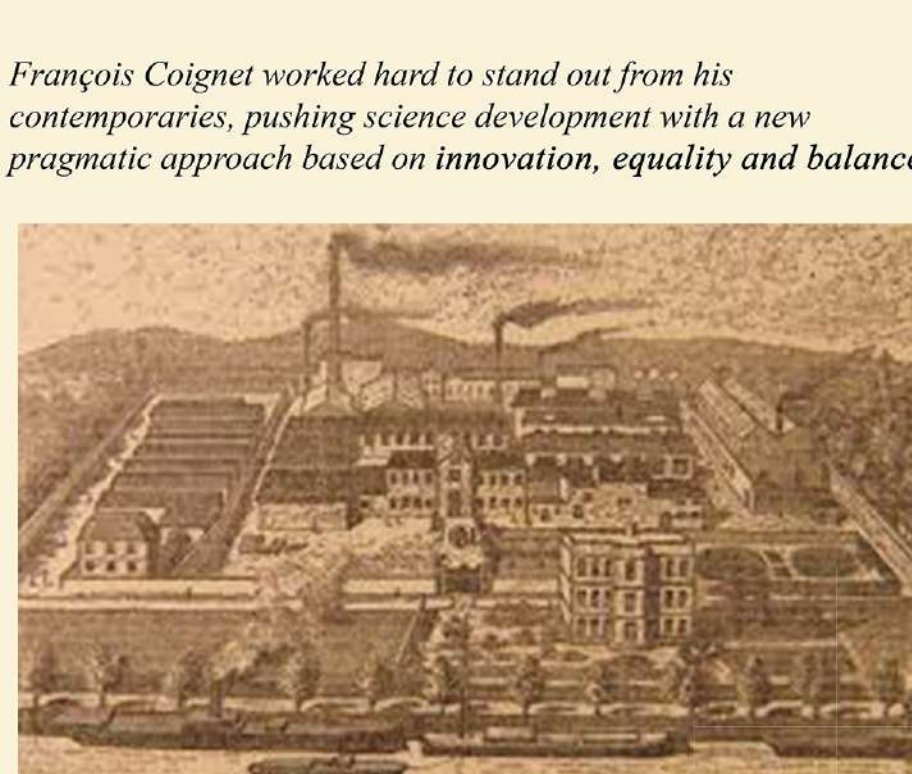


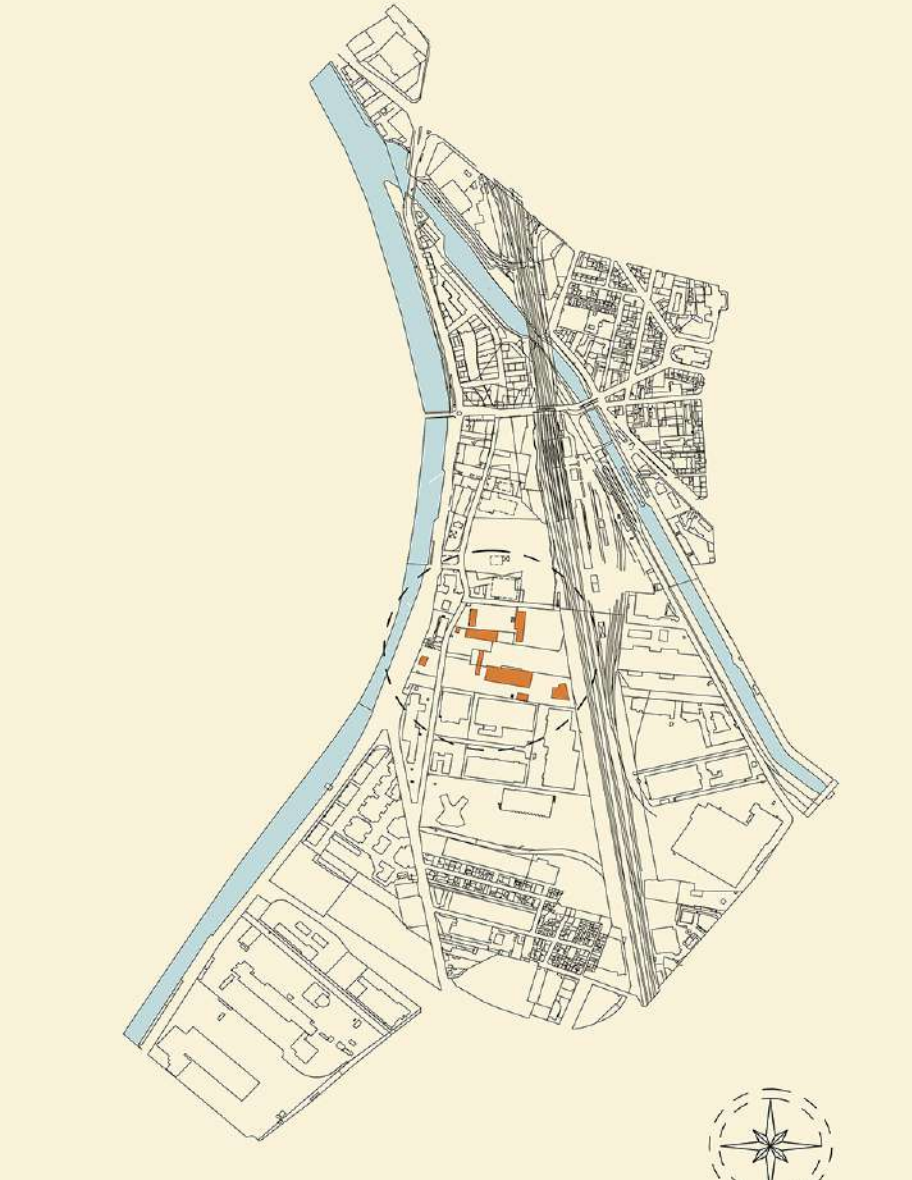
## JAVIER AGUDO GARCÍA - ENRIQUE ORTEGA MOLINA - ANTONIO RÍOS CALDERÓN



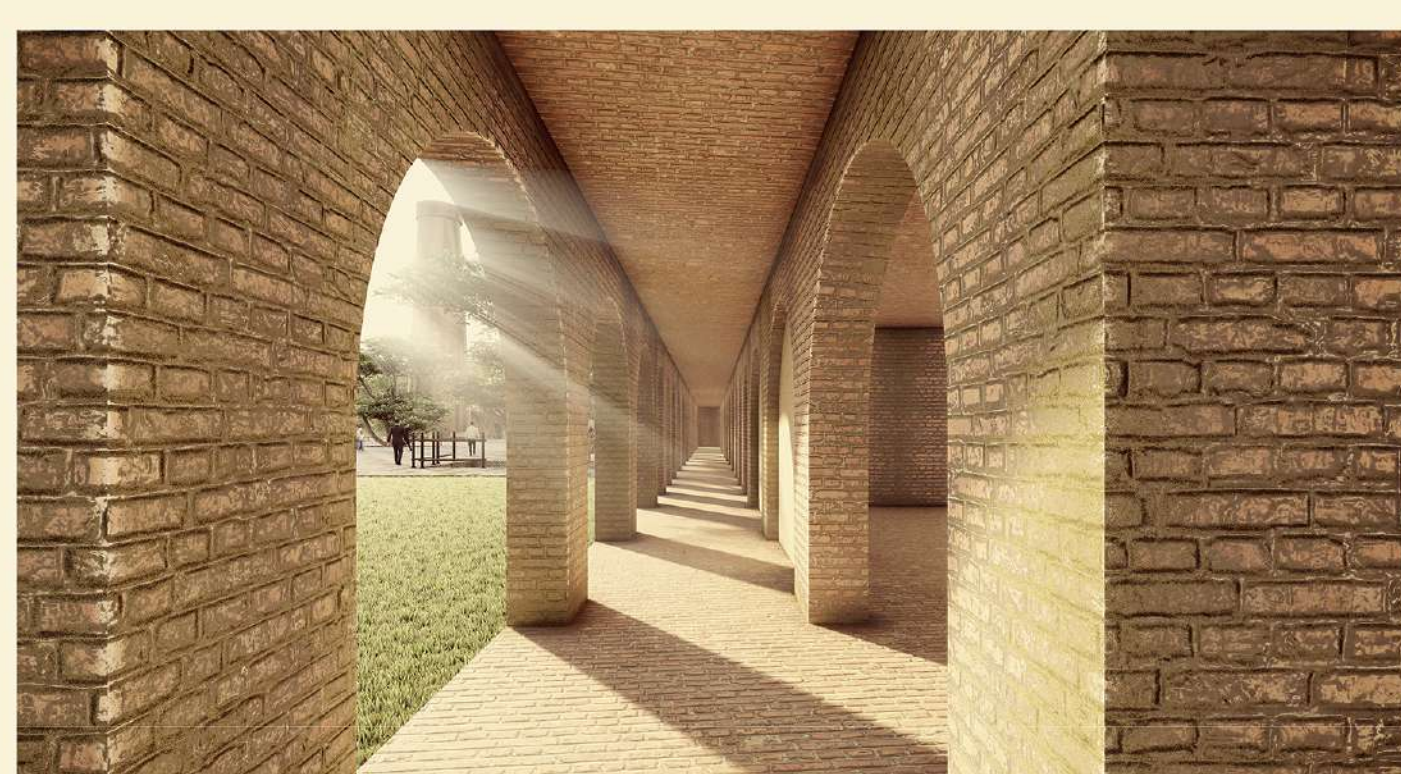
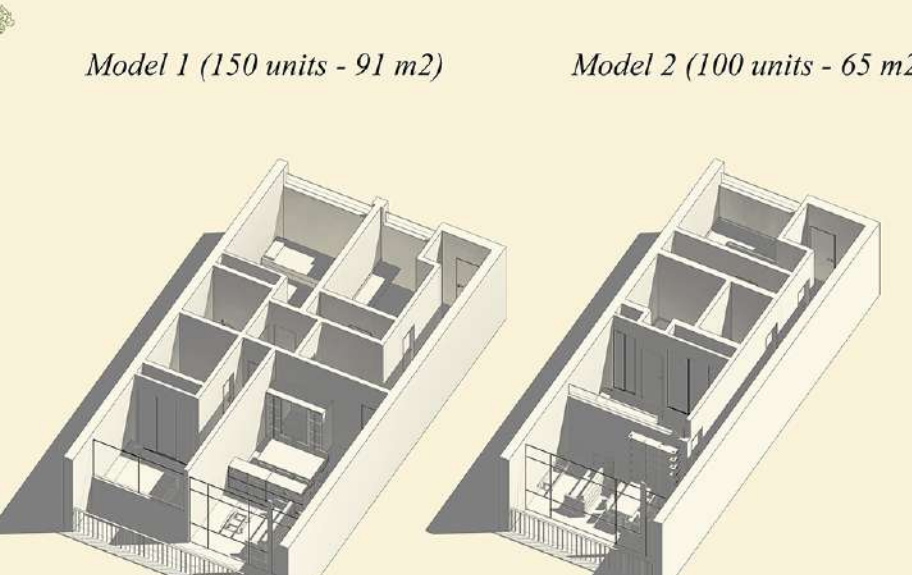
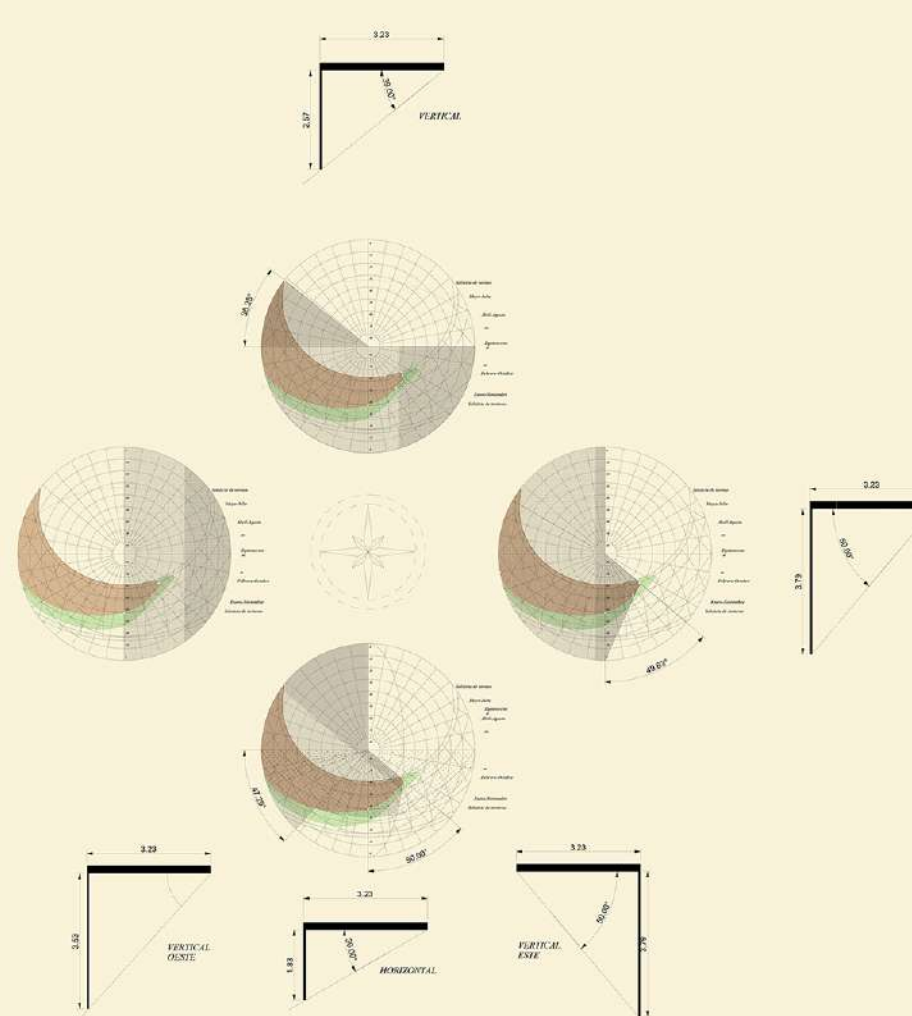
MASTER PLAN EVOLUTION



*His dedication inspired us to follow his steps by paying a tribute to the industrial area which used to rule this part of the beautiful Saint Denis. However, with this new fabric we want also to outline the importance of nature and sustainability, transforming the ancient spirit of the area, into an eco-friendly new space, reigned by a new symbol: the chimney.*



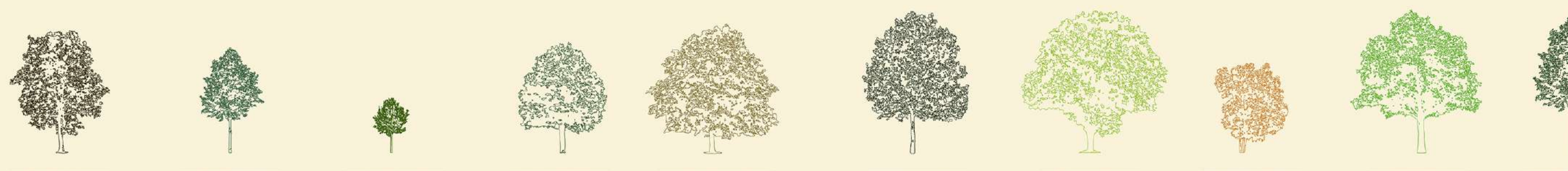
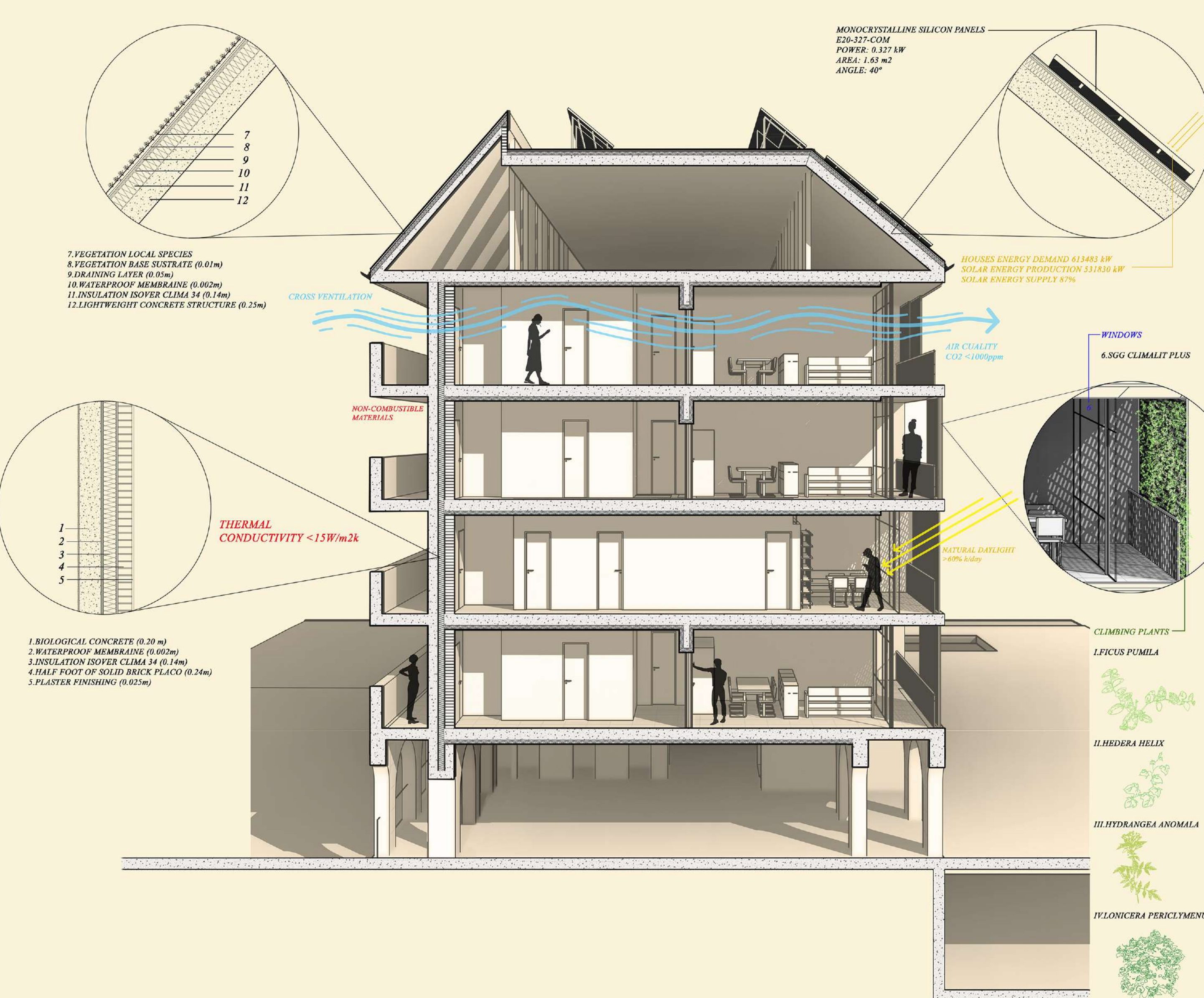
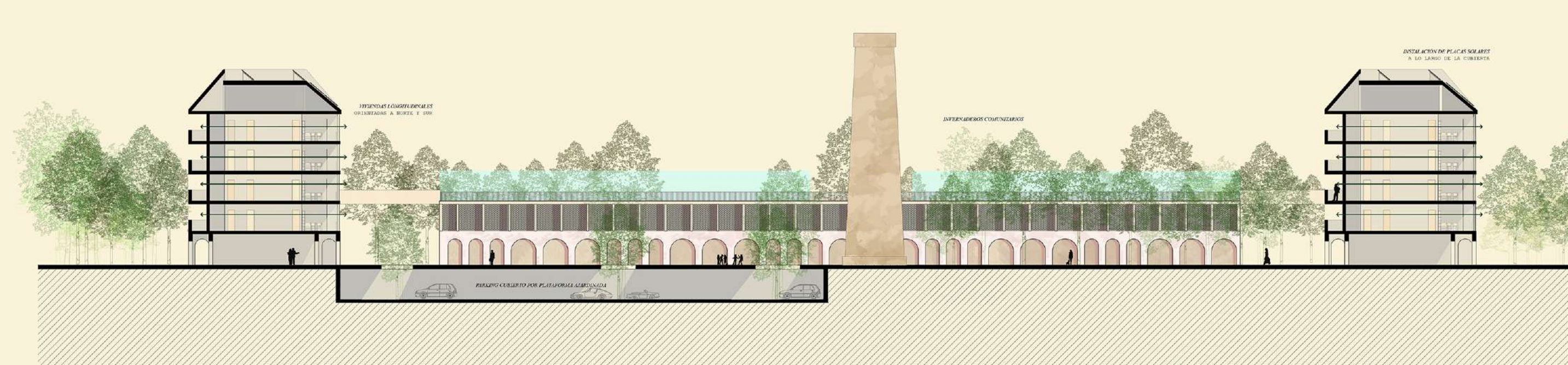
*The Fabric involves the creation of a new neighbourhood inside truly forest, which means that the complex can bring together nature and humans. The coexistence is possible, and both, vegetation and people, can help each other to satisfy their mutual comfort.*



CLARISSE COIGNET SCHOOL

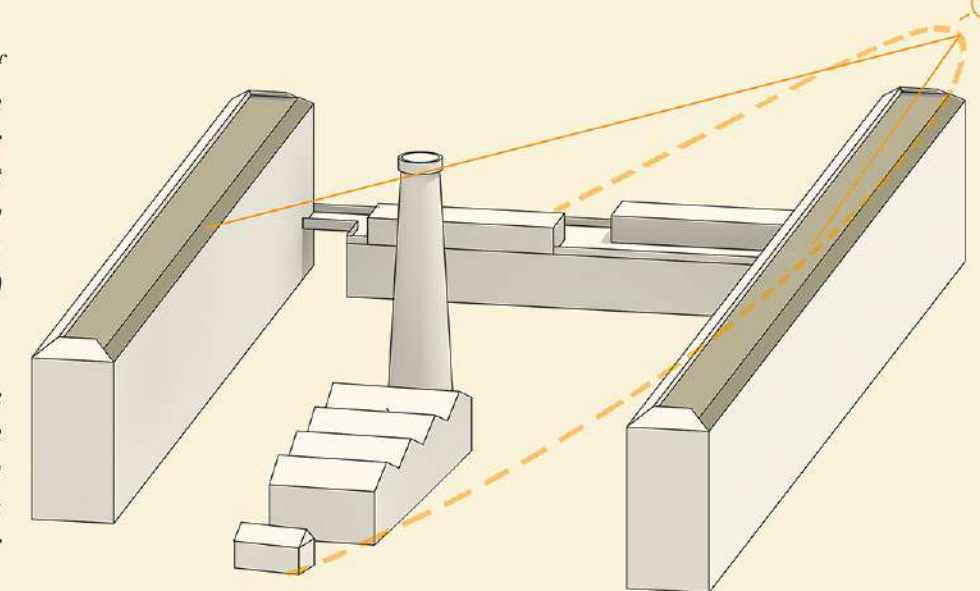
Following this *forward-thinking* that characterize the Coignet family, we could not forget the remarkable work of this family member. Her literary works played an important role in the development of the XIXs educational laws, which achieved a free compulsory schooling for the youngest French child.

*For this reason, we want to reward her enlightened work by constructing a new school, in which we create plenty of social spaces, sheltered by the new forest. Furthermore, we generate, in the roof-top, a local production area inside two greenhouses, conceived for promoting the neighbour's socialization and their own oliments supply.*



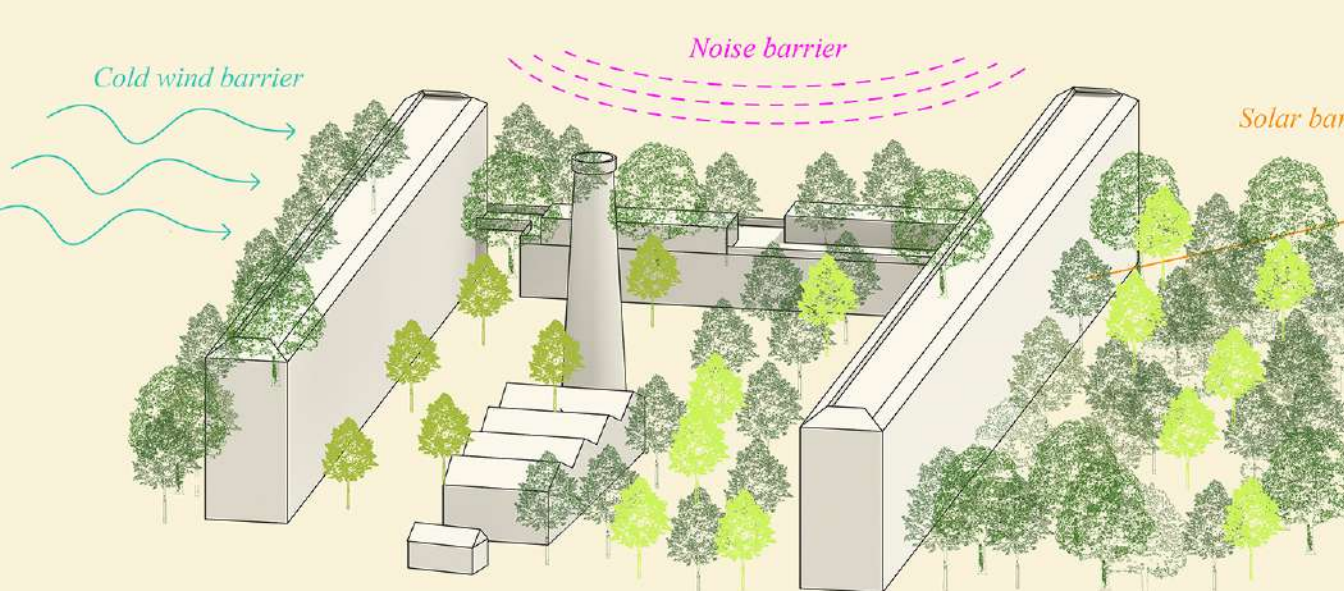
The high solar incidence at this latitude (40°) let the Factory to use all the power of the sun in order to generate photovoltaic energy (531830.66 kWh/annual) and heating energy (35259 kWh/annual).

These two resources are crucial for getting renewable electricity with solar panels (2472.71m<sup>2</sup>) and free warm water with solar collectors (73m<sup>2</sup>).



## THE FOREST POWER

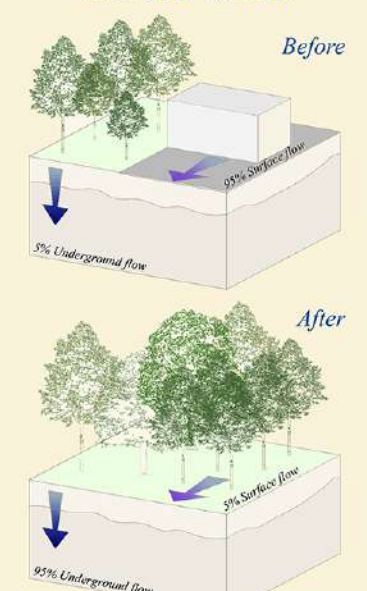

With this new forest we transform the ancient industrial **imagine** into a new eco-friendly one. By using **local tree species**, we encourage not only the natural biodiversity which used to live in this place, but also, we create a natural knowledge source for the new generations. Furthermore, the forest protects the Factory from cold wind flow, the awful city noise and the excessive sun exposure, creating a new green city space for Saint Denis.



## FOREST BIOMASS

The forest provides us with optimal climate conditions, but also we take advantage from a sustainable cutting cycle.

This process feed us with a new renewable resource of energy for heating the Factory: biomass

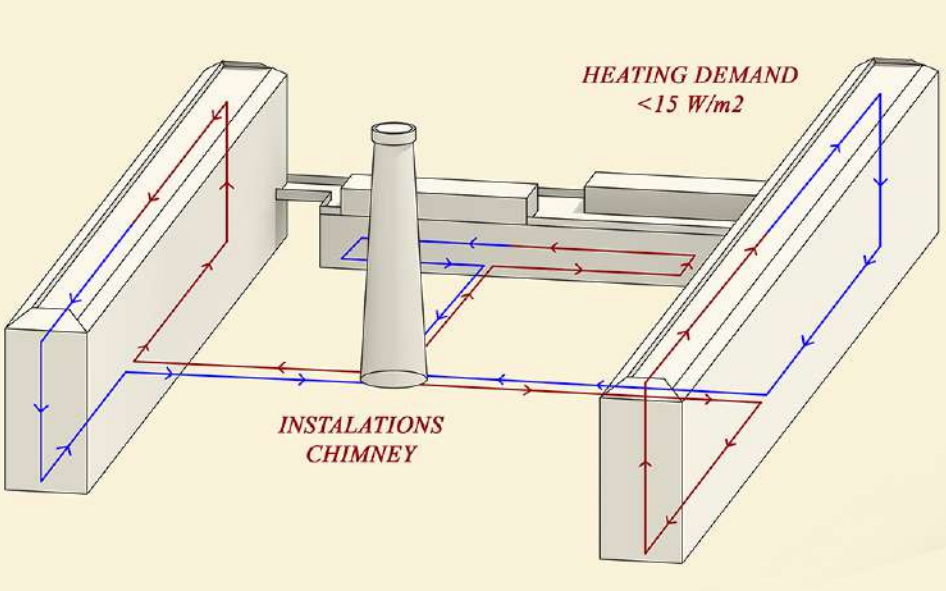


*THE CHIMNEY*

The symbol which used to mean pollution, is transform now into the sustainable lighthouse of the Factory.

Thanks to the centralisation of installations in this new chimney, we are able to meet the needs of the whole complex.

Water supply is fulfilled by two warm water tanks, one for solar passive warming (8960 l) and other tank for secondary demand (6719 l). Furthermore, in the chimney we generate the energy for the heating demand (<15 W/m<sup>2</sup>), thanks to a biomass boiler (250 kW) and a secondary condensing boiler (311 kW).



## REHABILITATION &amp; NEW LIFE

We want to highlight the importance of the **Coignet family heritage**. For this reason, we face the difficult task of **rehabilitate** the ancient factory buildings, helped by the **sustainable solutions** which **Saint Gobain** offers to us. Apart from the rehabilitation process, we transform the lower plant of the Coignet Mansion into a **treatment plant for greywater and Seine River**. This clean water is now used for the forest irrigation system and it is finally returned to the Seine River.

The upper floors of the Malsinon are converted into a **Coignet museum**, completed by an **outdoor terrace** following the new stream and a **new event hall** in the ancient warehouses.

