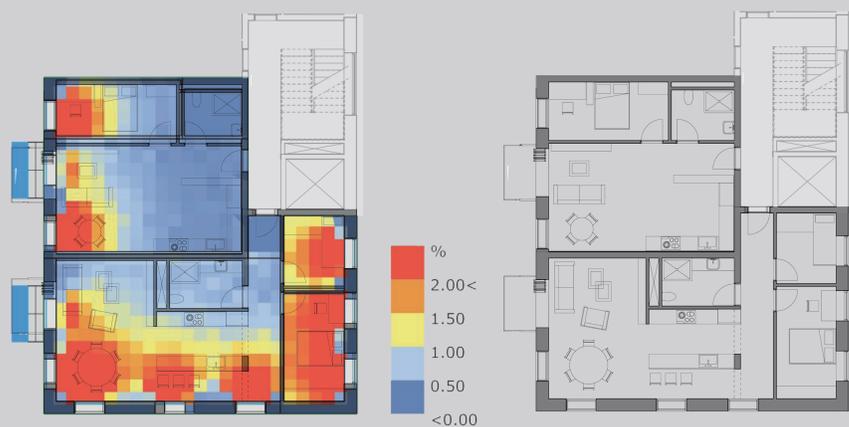




Masterplan with urban functions

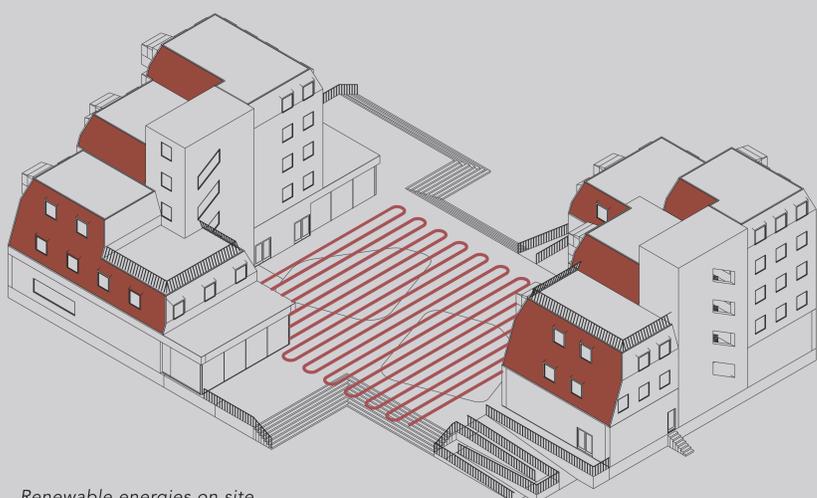


Daylight% in two apartments 1:200

A CO-HOUSING COMMUNITY

The concept of the project is to strengthen the sense of community, while creating a comfortable and attractive residential home for the residents. The two buildings are forming a central place between them, where interactions and meetings between the residents, the town of Pernis and the public are envisioned to happen. The building and the urban space between are raised on a plateau, which helps prevent potential flooding, but also helps keeping a lower pace, making it seem more private and community based.

The design of the common spaces at the ground level works towards integrating activities appealing for various age groups. While the urban space is open to the public, the residents have the opportunity to interact in the semi private buffer zone at the roof terraces. In this way, there is a gradual change between the public space and the private units. Their private units have been planned in order to benefit from daylight and with a layout that promotes socializing. The residential home is an appealing healthy home, where the user groups' different needs are met and where community, indoor environment and the characteristics of Pernis are met in a sustainable architectural design.



Renewable energies on site



North elevation 1:200



South elevation 1:200



East elevation 1:200

<p>COMMON COURTYARD</p> <p>To create a sense of community it is important to have spaces for social interactions both inside and outside the buildings. The courtyard acts as a meeting place for the residents, and instigates interactions between them and the public that comes through.</p>	<p>RAISED PLATEAU</p> <p>The site is located in a high flood risk area. The design protects the residents and their belongings by raising the residential buildings 1 meter above the ground on a plateau. The plateau visually connects the two buildings together which strengthens the sense of community.</p>	<p>PUBLIC/COMMON GROUND FLOOR</p> <p>To promote the future development in the area and accommodate the residents needs, it is important that the public and the private can coexist. The private apartments starts from the second floor and up. This ensures privacy and gives the residents the opportunity to choose when they want to socialize.</p>	<p>URBAN ACTIVITIES</p> <p>The ground floor and the courtyard is programmed with a cafe, community kitchen, workshop, urban gardening, activity area, playground and places for socializing. This diversity in activities and functions seek to create interactions between the different user groups and the public. The simple fact that seeing life brings life can increase the quality of life for all the residents, and especially the seniors.</p>
<p>BUILDING STEPPING DOWN</p> <p>The site becomes more inviting by stepping the building height down towards the south, since it meets the people in a human scale. This helps create a human connection to the rest of Pernis. It also increases the sunlight hours in the courtyard and creates two southern faced roof terraces where the residents can meet in smaller gatherings.</p>	<p>SLOPED FACADE</p> <p>The energy demand during the year is highest in the winter periods. This is caused by the high energy demanded by heating. To increase the efficiency of the energy produced by the photovoltaic the southern facade is angled 75 degrees which complies with the lower sun angle during the winter.</p>	<p>ENCLOSED BALCONIES</p> <p>To combat the high sound and air pollution caused by the highways and industries in the area, each apartment has access to an enclosed balcony. From here the air is filtered by algae tanks and then used to ventilate the apartments.</p>	<p>SUSTAINABLE ARCHITECTURE</p> <p>These design solutions aim to create a sustainable residential development, with a healthy indoor environment and spaces for social interactions between different user groups and the public. The aim of these factors hopes to create sustainable architecture that can be used far into the future.</p>

