

Energy

Energy consumption

Primary energy need : 8,50 kWhpe/m².year

Primary energy need for standard building : 23,10 kWhpe/m².year

Calculation method : UNI TS 11300

Breakdown for energy consumption : Cooling EPe 1.28Heating EPI 8.51Hot Water 24.7

Envelope performance

Envelope U-Value : 13,80 W.m⁻².K⁻¹

Building Compactness Coefficient : 0,80

Indicator : DIN 4108-7

Renewables & systems

Systems

Heating system :

- Heat pump

Hot water system :

- Solar Thermal

Cooling system :

- No cooling system

Ventilation system :

- Natural ventilation

Renewable systems :

- Solar photovoltaic
- Solar Thermal
- Heat pump (geothermal)
- Micro wind

Environment

Urban environment

Identified in an abandoned and heavily polluted site (6Ha) adjacent the 1050ha productive area of Padua a unique strategic ground for an integrated action: create an active body to reduce the environmental impact of the industrial estate of Padua (1600 enterprises operate in it) by encouraging the development and diffusion of renewable technologies; preserve one the largest green areas from degradation by giving it an innovative public fruition (a newly conceived naturalistic park); yield the city cultural and civic life, traditionally located within the historic centre, a vital connection with its industrial therefore extremely anonymous quarter by enhancing the Isola di Terranegra context as its natural juncture.

Land plot area : 60 000,00 m²

Built-up area : 30,00 %

Costs

Construction and exploitation costs

Global cost : 2 000 000,00 €



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