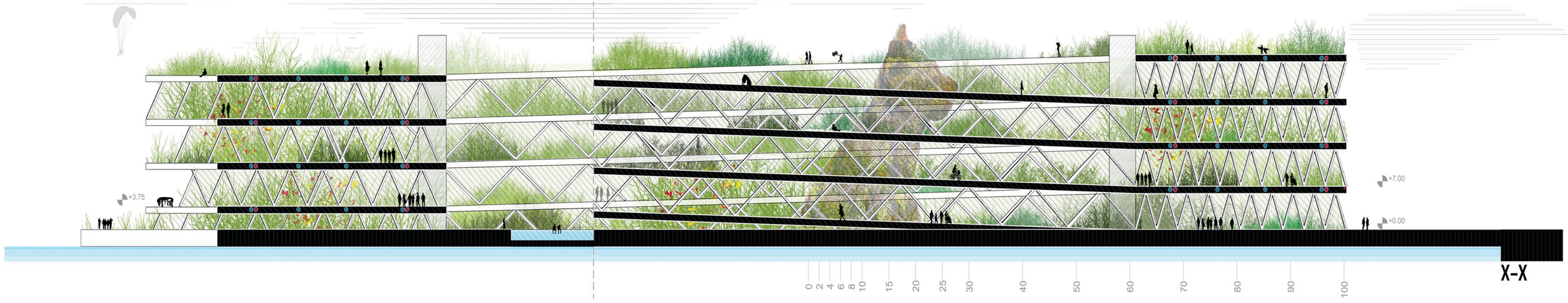

total height	dimensions	total area	green area	energy generated	structure annual efficiency	No. of households supplied in electricity	carbon dioxide assimilation annually	sound intensity level
28m	227m X 135m	9.6ha	8.7ha	3.2 W/m^2	2,422MWh	741	8.6 tonnes	~0dB

DIMENSIONS AND LIST OF THE PRIMARY MATERIALS USED

There has been suggested an object with dimensions of 227x135x28 (h) m, covering an area of 9.6 hectares. Biologically active levels that make up the object, occupy an area of 8.7 hectares.

It has been decided to use steel or its substitutes, materials resulting from the processing and reuse of plastics. Natural materials are, of course, soil and plants.
It is suggested to use the steel material construction as reused and the elements ceilings construction as recycled plastics (bottles, packaging, etc.).

ENVIRONMENTAL IMPACT STATEMENT

Producing 2,422 MWh of energy per year the facility is able to provide electricity 741 to the households. An additional positive impact on the environment is the fact that it functions as green lungs of Copenhagen. 8.7 hectares of plants will help to reduce CO2 not only in Refshaleøen, but throughout the city. Attention needs to be paid to the fact that the object will emit a small amount of noise.

Aside from the noticeable action of the energy the object will play an important role in the educational context, being the information center on the renewable energy sources. There will be possible to tangibly experience the process of energy generation by, for instance, caring and observing the growth of plants. In terms of green energy it is certainly important to strengthen the social bonds of the inhabitants and show the common goal for the ecosystem.