

HABITAT

Del Artos



Sztuka życia w synergii z Naturą
Art of living in synergy with Nature



MISSION

Nature First

We aim to restore Nature to its primary role in the mankind's life and to help *homo sapiens* rebuild their lost relationship with their natural habitat - the lush, biodiverse, vibrant and abundant Forest Garden.

VISION

In line with this aspiration, the idea of a “*homo sapiens*’ habitat” was conceived - a habitat embedded in the Forest Garden, carefully developed with respect for Nature, being a component of the Garden, carrying added value of a human host, caring for the Garden as if it were their own home, living in perfect connection with their natural environment;

in harmony that reciprocates with *homo sapiens*' ability to achieve food and energy independence.





**This vision can be achieved
through a synergy of key goal
elements:**

SHELTER

- the starting point is a house, of a small size (up to 70 m²), designed so that it can be built with a simplified construction procedure;
- the house has a modular design meeting all standards of safety and structural durability; it guarantees ease and speed of assembly even by those unfamiliar with construction;
- an additional advantage of the structure is the possibility of combining elements to obtain a larger building, or its dismantling and moving the modules to another location.



WATER

- A house set in a Forest Garden is also part of an agroforestry system.
- Flat, graded roofs connected by a system of gutters to a reservoir are designed to store every drop of rain.
- The water thus stored is then filtered using natural sorption and phytoremediation processes

(method developed and patented by Polish scientist Prof. Wojciech Halicki).



FOOD

- The most important part of the habitat is the Forest Garden a carefully designed agroforestry system, adapted to climate and soil conditions, encompassing all nine layers of forest plants to increase the effects of positive allelopathy and, as it grows, become a source of organic, healthy food (honey, fruits, vegetables, herbs, mushrooms) for the habitat's inhabitants.



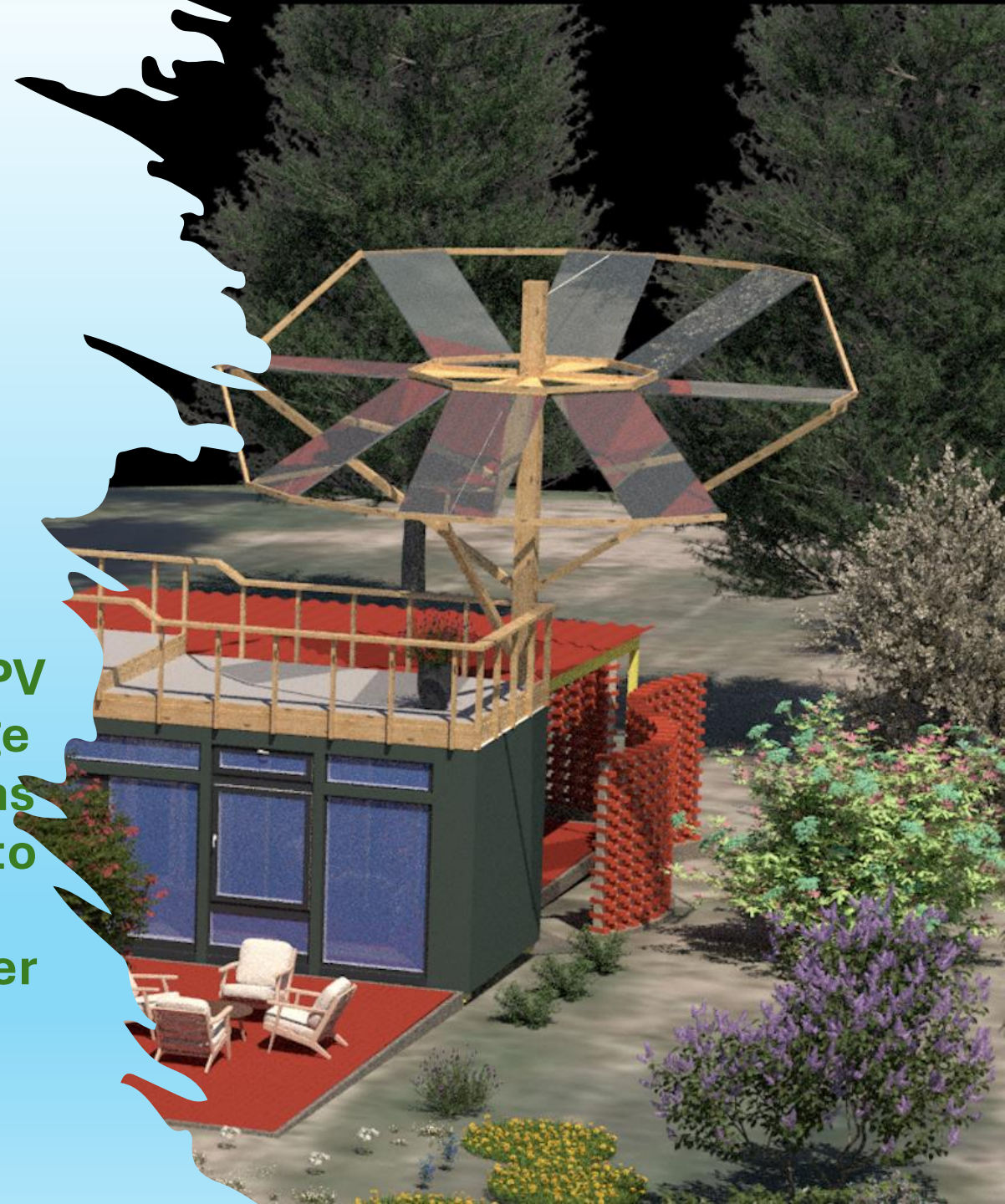
THERMAL COMFORT

The issue of heating the house was solved by using the Trombe wall technique, with some design details that increase the efficiency of the solution.



Electricity production

Transparent agro-photovoltaic panels APV - connected in a shape resembling a large futuristic flower, inclined in such a way as to maximize the use of the sun's energy to charge the batteries, which will provide electricity 24 hours a day, both in summer and winter.





WASTEWATER TREATMENT

Even in such a self-regulating system as a forest garden, there is never enough fertile soil, providing an abundance of fertility and food not only for humans, but for a whole great multitude of beneficial creatures. It is therefore fundamental to use organic waste to produce compost. A solution that fits perfectly with the “zero waste” philosophy and was used in the design of the habitat is a plant-based wastewater treatment plant.

SUMMARY

The goals to achieve the intended effect have not been numbered deliberately. This is because it is difficult to set them in terms of any hierarchy or succession. The starting point is, of course, Nature and the Forest Garden, but there is a synergistic connection between the individual elements that resemble a circle and a circuit tending to a closed one, shaping the HABITAT.

By integrating the house with the Forest Garden, we gain many benefits for both Nature and mankind.



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