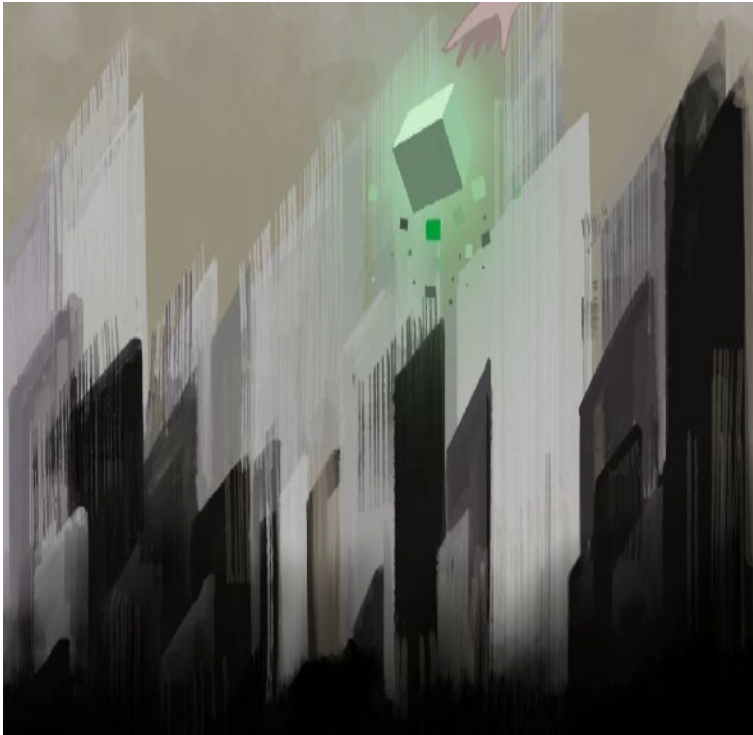


Our 3D Model

By Steven



The model is based on SketchUp

Model Description

The model is based on our essential idea of the project—designing an ecological experience facility that stands in the modern city. Due to the limited time and budget, we were not able to actually build one. Instead, we created a model for it. We used SketchUp software to realize modeling.

The model consists of four parts: water circulatory system (PART I), green plants (PART II), renewable energy (PART III) plus a hands-on experience place (PART IV).

Overview and PART II - Green Plants

When building models, we didn't model the surrounding civic architecture in order to have a better look at our facility, so it may seem like the facility is in the forests.



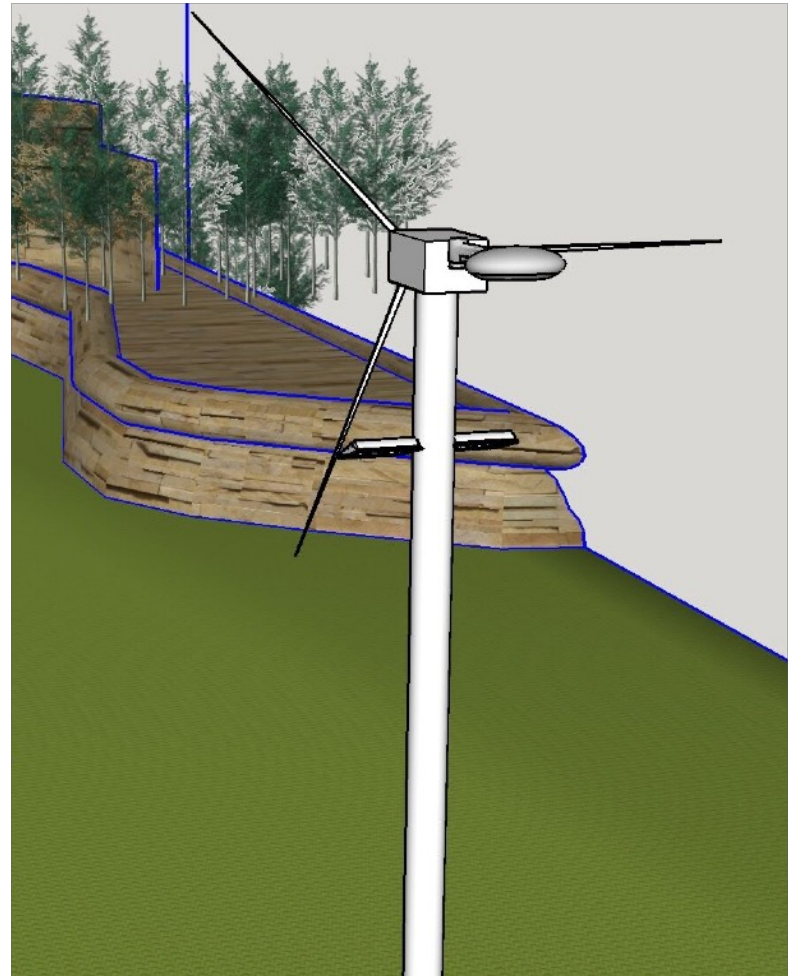
Since the idea of the Green Plants part is to allow audience completely immerse in the ecosystem, it doesn't have a specific exhibition area. Rather, we place those plants all over our facility, as can be seen from pictures.

PART I - Water Circulatory System



In this part, our idea is to exhibit our water circulatory system within a glass room. The physics behind can be viewed in our paper work.

PART III - Renewable Energy



As can be seen from our paper, the energy section deals with solar energy, wind energy and their combination.

● *Picture from the left is solar PV panels; picture from the right is a street light that uses energy extracted by its blades and solar PV panels.*

PART IV - Experience Area



This part allows audience to get hands-on experience by letting them plant by themselves.