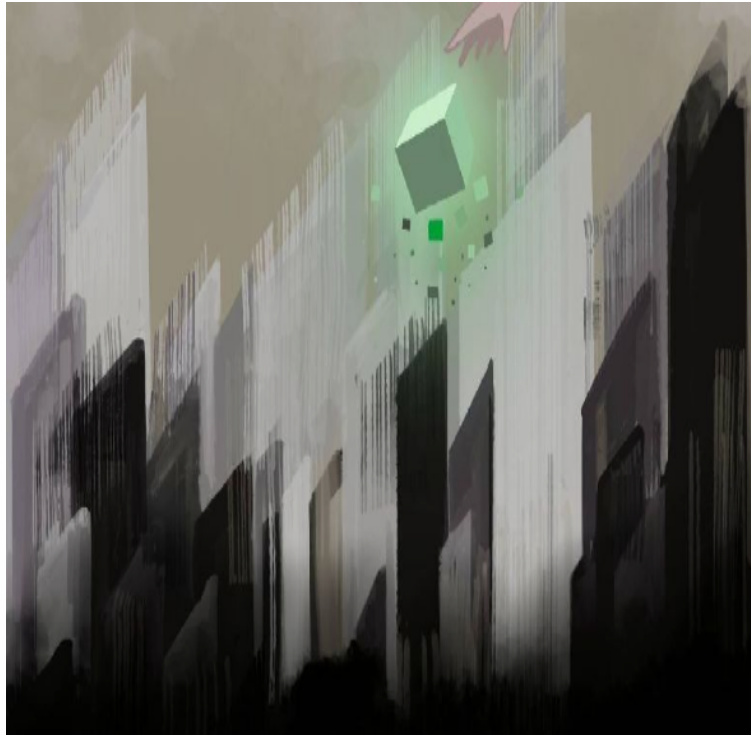


Our 3D Model



Designed by Steven Liu using SketchUp

Model Description

The model is based on our idea of the project—designing an ecological experience facility in an urban area. Due to limited time and budget, our group was not able to actually build one. Instead, we created a model for it using SketchUp software.

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

Overview and PART I - Green Plants

When building the models, we didn't include the surrounding architecture in order to have a better look at our facility; so it may look like the facility is in a forest.



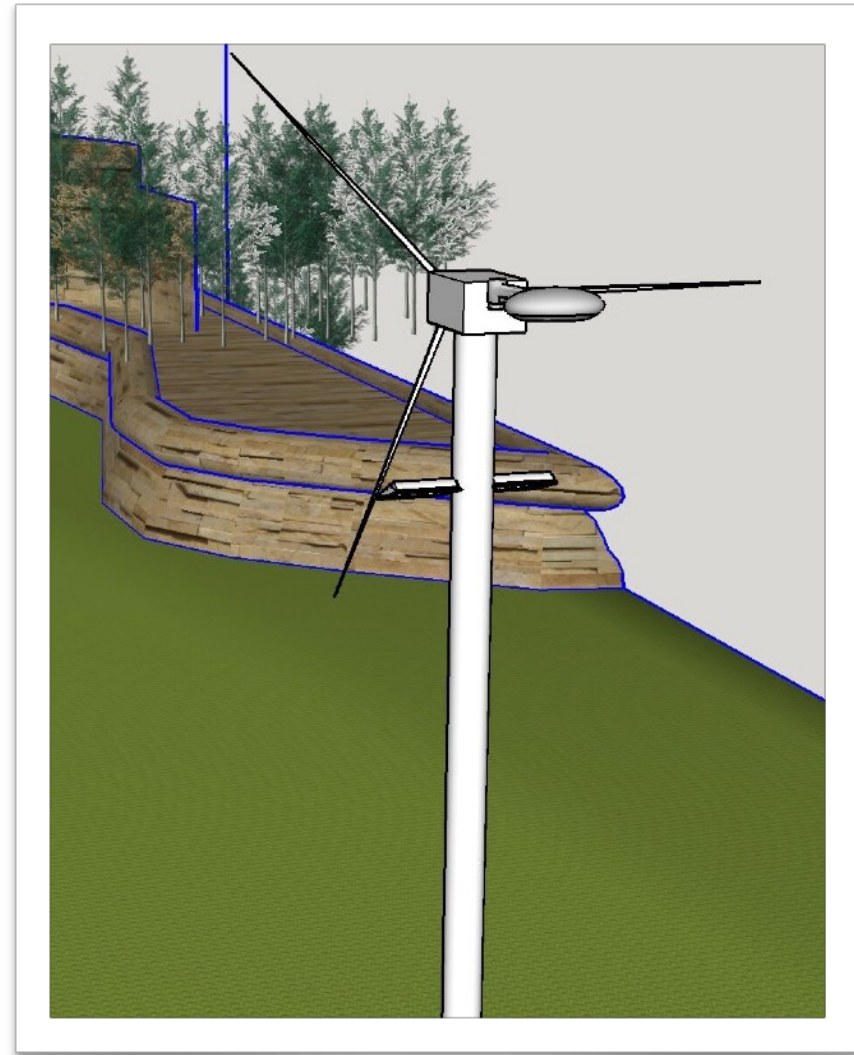
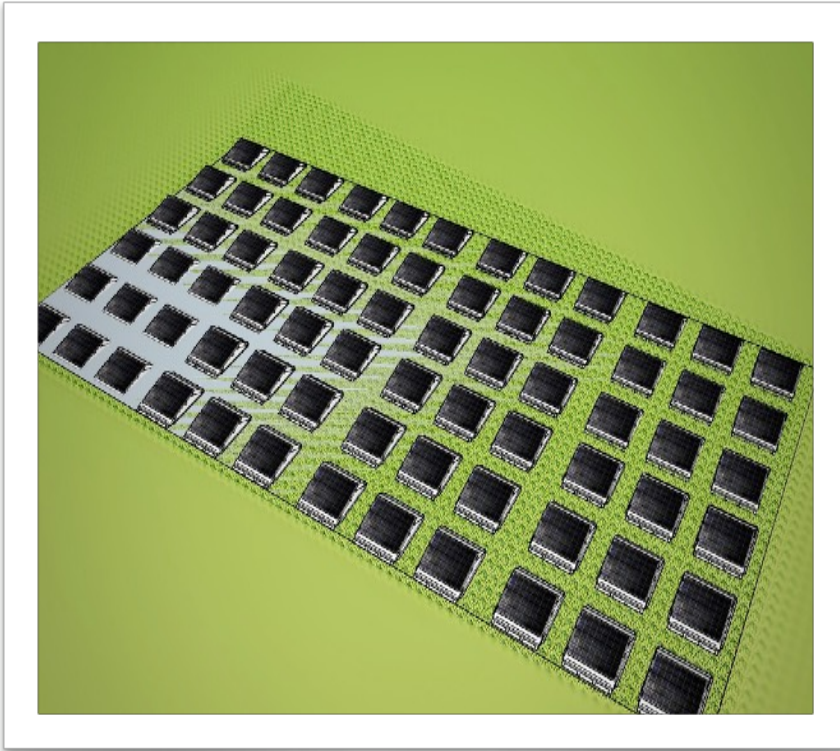
Since the idea of the Green Plants part is to allow the audience to completely immerse themselves in the ecosystem, it doesn't have a specific exhibition area. Rather, we place those plants all over our facility, as seen from the pictures.

PART II - Water Circulation System



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

PART III - Renewable Energy



As detailed in our paper, the energy section deals with solar energy, wind energy and a combination of the two. Photo on the left is solar PV panels; photo on 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 manipulate the model and plant by themselves.