General

Currently, more than ever the world encountered high shortage of energy and food. Therefore LAGI has chosen a good timing to run this design competition. I am grateful for this organisers who made me to start thinking like this.

Shortage of energy due to the paradigm shift on world trade relation and other political and economical reasons, may push the designers and engineers to exploit the renewable energy in a beautiful way like this project demands.

In my proposal called C60, i am inspired by the carbon 60 molecule or fullerene. This molecule display the form of a football (⚽) in its newtral structure and it is exploded in to amazing parts when it is charged(i took this as energy collection action).

Discribtion of my proposal

As the fullerene exploded to react with its environment my c60 building also disperses its hexagonal and pentagonal wall and windows to collect solar energy. In other hemisphere it collects sewage and dry waste to decompose in to biogas and compost.

I integrated three technologies excluding the Buckminsterfullerene. These are Solar panel energy collection, Biomass digester to biogas and composting and vermifilteration.

These technologies are architecturally organized to serve as Mannheim's park standard building for fast food and puplic toilet provisions. The building rests on a 200 square meters plot that is to be allocated in multiple places within the project area. It’s height is about 10 meters while it has 4 meters space below ground.

The upper level of my building proposal serves as a fast food store with its 50 square meters area. It has a circular staircase at its centre that launch at 00 level and land to a general purpose space in the middle. This food service is very essential for a wide park visitors. It also supply plenty of kitchen waste and water for the biogas digester under.

At the middle level puplic toilet service is provided with a total quantity of 10 toilets and eight hand wash for gents and ladies separately . On natural ground level, there are entrances to the biogas digester stair, the toilet and the fast food store

At the lower level three chambers are connected with waste from the food store and manure from the toilets. After the waste complete its decomposition, it join in the lower connection pond to be filter with the worm culture chamber.