The Butterfly effect sculpture is a 33meters high design, containing three main elements; 50 translucent fiber glass shaped as butterflies, white carbon fiber pipes to hold the sculpture and provide balance for the overall structure, and two leaves trees replacing the butterflies as leaves for the sculptural design.

The main goal of the design was to inspire the children mainly as opposed to them being the future generation, therefore a colorful design was chosen to make it very appealing to the eye and inspiring at the same time, creating fun shapes alongside making a sustainable idea come to life inspired the overall design of the project.

each butterfly entity consists of two main elements for a self sustained proposal, the upper side of the extruded geometrical design (butterfly wings) contains a costume designed solar panel allowing it to absorb clean solar energy which will be stored at night time for the integrated LED lights inside the translucent form creating a beautiful view of glowing the dark colorful sculpture.

-The technology used is simple and well established in the modern days, it is the same system used for solar panels which transfers solar energy to electrical energy.
- Materials used are translucent fiber glass and carbon fiber pipes.
- the estimated annual KWH = 50 x 4 panels x 200 x 5 hours a day = 200000 a day = 200kwh/day
energy loss = 15% = 170kwh/day
annually ~ 60000KWH

**Environmental assessment:**

Environmental benefits: The large-scale adoption of solar technologies will significantly reduce the consumption of fossil fuels and will consequently reduce the environmental impacts associated with these fuels .
Significant emission reductions can be accomplished through PV electricity (PVe) production since PVs do not generate noise or chemical pollutants during their normal operation. Besides, PV cells help the increase of soil humidity and improve flora formation in dry/arid areas.
The emissions associated with transport of the modules are minor in comparison to those associated with manufacture. Transport emissions were still only 1% of manufacturing related emissions.
Renewable electricity technologies have inherently low life-cycle carbon dioxide emissions compared with traditional fossil fuel-based electricity production.
Most emissions occur during the manufacturing and deployment of the renewable energy technologies; Except for biopower, renewable electricity generation has low or zero direct emissions of regulated atmospheric pollutants.
 Most renewable energy technologies consume significantly less water and have much smaller impacts
on water quality; Land use impacts tend to remain localized, and some affected land may also be used for other purposes.