**Enjoy the LIFE with COLORS**

The main idea of this project is to create a public space in between a public art with the interpretation of renewable energy. It enhances the feeling of being attached to the place and proves that sustainability could be fun. We tried to keep maximum green space and make it feel lighter by using silicon solar panels. The visual connection is created by linear wall placement from north-west to south-east. We connected some platforms in different levels and connected them with ramp, stair, lift, to feel the sense of the space.

**Technology :**

**“Atmospheric water generator”**

We used the technology of atmospheric water generator, that uses MOF (Metal Organic Framework) that collects drinkable water from high RH air and then turn it into water without any additional use of energy.

“There is nothing like this,” said Omar Yaghi, who invented the technology underlying the harvester.  “It operates at ambient temperature with ambient sunlight, and with no additional energy.”

By using this technology, we can produce 0.23L of drinkable water from 1kg of MOF, that sums around **30,600L** of water per year (approx 4000hr), from the total 6000kg MOF used in this project. The water is stored in an underwater water reservoir.

**“Amorphous Silicon Solar Panels”**

Amorphous silicon solar panels are lightweight and colorful solar panels. It can generate electricity in a colorful manner. We used around 8,500 sqm of solar panel that can produce **250Mwh – 400Mwh** (aprox) per year under average site conditions.

**Materials:**

* MOF ( Metal Organic Framework)
* Amorphous Silicon Solar Panels (for lightweight and colorful nature)
* Re-used Concrete tile pavement
* Steel frame

**Environmental impact:**

The MOF balances the humidity comfort level for human in the air. When the humidity is high 65%-70%, the MOF layer is activated and soaks the humidity from the air until it is balanced and comes to the comfort level. In the night, the humidity is absorbed and during the daytime, by the heat of the sun, the absorbed humidity is turned into drinkable water. Through a continuous cycle, it maintain the humidity level .