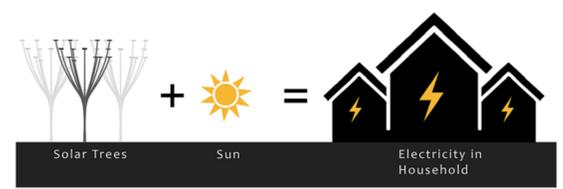# THE SOLAR URBAN PARK

Masdar city lies in the middle of the deserts of the Emirates of Abu Dhabi. Due to high temperature and no rain, the city lacks green and vegetation which means NO park for public realm.

The idea of this project is to provide a recreational space "An Urban Park" for the public gathering in the desert city. This park will utilize solar energy (available in abundance) during the day and as a result laminate itself after the sunset converting into a night park.

The Urban Park incorporates artificial solar trees and small artificial planters. The tree tops have PV cells which help to generate energy. A total number of 60 trees are spread throughout the site generating a total of 8000MWh in a year. The planters act as a tulip garden at night, when they light up after the sunset with hexagonal geometry giving shape to the solar urban park.

Solar Trees

Imagine, trees taking sun energy and giving back electric power rather than carbon dioxide and oxygen. The project looks at instigating the use of solar in the artificial park by creating trees as energy giving elements.

Solar Trees + Sun = Electricity in Household

Arabic Pattern

The grid for the site is inspired by the Arabic patterns. Hexagon is a prominent geometrical shape used in the Arabic patterns. The surrounding context also depicts the Arabic patterns on the Facade of the building in the form of *Jaali* work.

Grid Morphology Hexagonal Fractal