

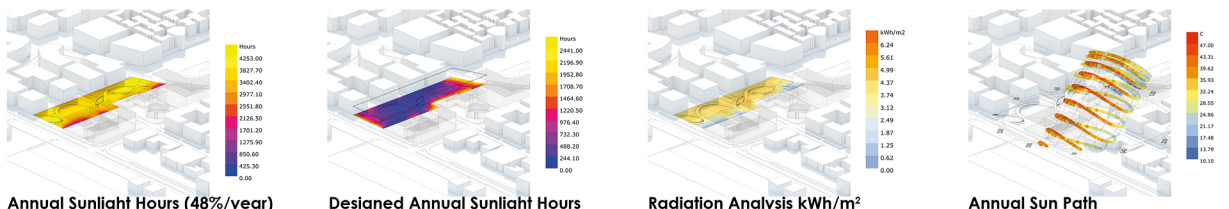


STARLIT STRATUS

Misty Civic Space, Perspective
Serving Potable Water and Shade for Visitors and Locals

What kind of art should be built for the rapidly changing and developing desert city? The main concept lies in the idea that the art in Masdar city needs a unique installation with the unprecedented characters and functions more than merely utilize the cutting edge technologies?

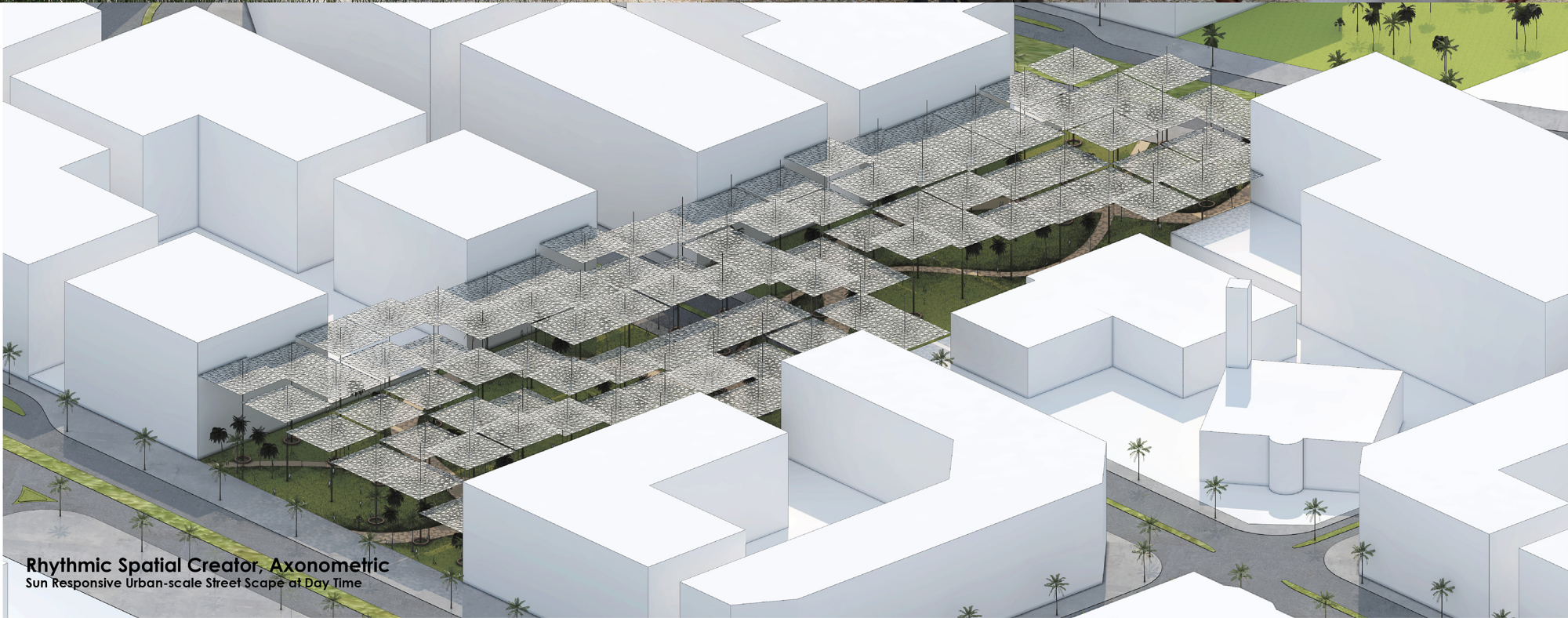
Geologically, Abu Dhabi is in the 'Sunbelt region' in which solar irradiation levels are very high. A solar panel in the UAE can potentially produce double the electrical energy compared to a country with relatively lower irradiation levels such as any countries in Europe. So the first aim is to use the solar energy to **experience new micro climates that can not be experienced in the desert**. At the same time with providing a **surreal** place in the desert, we propose a piece of art like dynamic organs that accumulate energy and consume it for self-sustainability. The art responds to sunlight and can also be directed according to the activities of program, providing a pleasant **shade and mist** during the day and a **light** at night. The art designed to form a civic park which is **accessible all year round day or night** to provide a **continuous activation** of the site including events, festivals and annual activities. Due to the characteristic of creating new surreal environment in desert, this art can be called "*Starlit Stratus*."



Sun Energy Driven Environmental Design
Aiming to create comfortable urban outdoor space based on the analysis of Sun Path (Shadow) and Radiation energy consumption.



Origami Structure for Responsive Self-sustainable Organ
Inspired by Ron Resch's Pattern for Dual Functionality (Energy Collector & Emitter)



Rhythmic Spatial Creator, Axonometric
Sun Responsive Urban-scale Street Scape at Day Time