

# LIVE PERGOLA

Masdar, where gulf confronts desert, and the bold presence of passersby to survive in a very hot and sunny climate which its increasing temperature challenges every passenger's endurance.

Regarding the fact that Masdar is considered a sustainable energy source, and that one of the main symbols of endurance in such climates is a camel, the animal's life-giving hump was selected as the climate's local concept, a water reservoir, getting the water from its nearby gulf to give life to the surroundings.

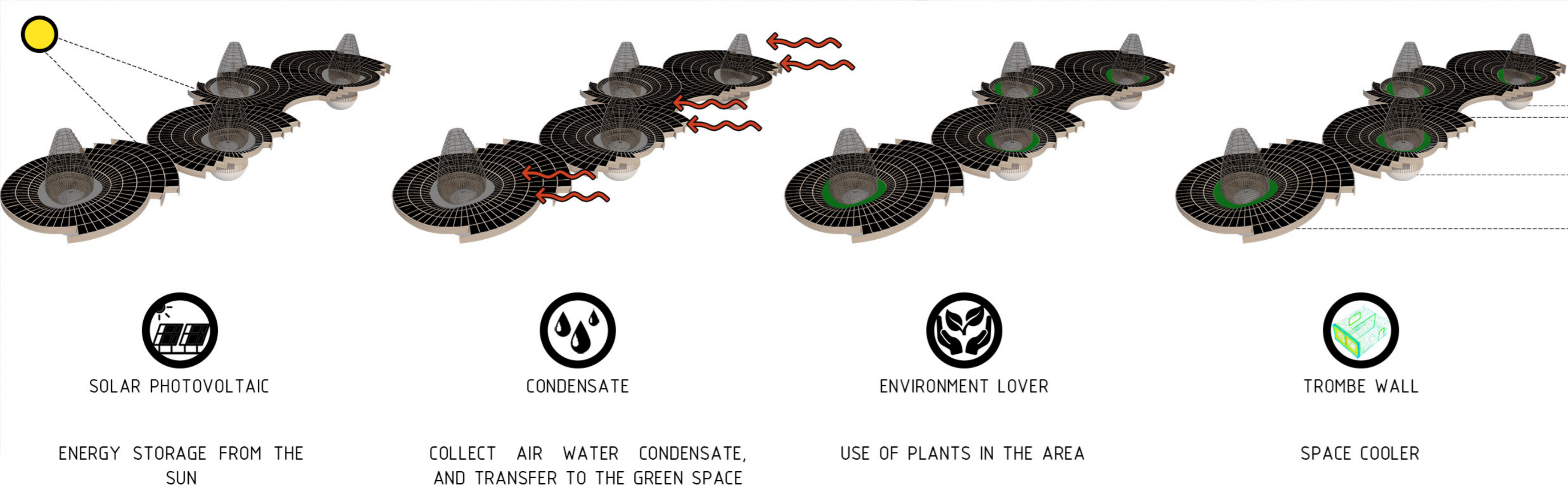
Half is in the cool ground and the upper half is a structure which maintains a huge reticular pergola and the quaternary water supplies that by surface evaporation in environment temperature increases the biodiversity and richness of the environment.

Above these humps, in the cavities of the wavy ceiling, there's a proportionate greenspace that uses vaporized water and the humidity in the shelter of the structure which steers a few drops of water towards the green space through water-friendly surfaces by providing a little shadow.

Above the humps and below the green space, there are some tiny pores that due to the water and dirt below cools the structure and the plant beds, through directing vaporized water to the dirt, which also makes the plant roots hang in the pores because of the direction of humidity, and have a better experience in the cool weather without being hurt by the salt in the water.

To complete these processes, there are photovoltaic cells on top of the pergola that provides more shadow and better ventilation and guarantees the self-sufficiency of the complex due to its massive span.

These arrangements and the structure use zero energy, and all processes are sustainable and natural. The symbolic structure helps the bio-cycle and it provides the passersby with a delicate experience of the place and a sense of comfort.



CAMEL HUMP CAPACITY: 4000M<sup>3</sup> x 4

Filling the reservoirs with sea water does not have a negative impact on the environment

135 LIT

The camels drinks 135 liters of water per meal, and save it .

