

# SuMMa Sustainable Museum of Masdar

## SOCIAL BENEFITS - ENVIRONMENTAL BENEFITS - ECONOMIC BENEFITS

SuMMa is a new cultural paradigm that places the concepts of renewable energy technologies, experimental design and bioclimatic architecture, linking those ideas with geographic and environmental conditioners and contemporary art. Basing on the majestic and organic form of the brazilian "Floresta Amazonica", the photovoltaic panels were set on the top of the building, arranged in a structure that intends to look like treetops, giving movement to the linear skyline of masdar city.

The challenge was to link design and sustainable apparatus tailored to support itself, considering that it is in an urban area and the human scale is a significant concept to follow. In order to democratize the ground floor by making it entirely public, visually permeable and filled with forest of indigenous species's vegetation, a gantry structure was developed to hang a main block 12 meters above the street level. This block lodges the gallery, lobby and theater and it is connected to a second building that works as an extension to connect a suggestive administrative sector.

Photovoltaic panels are settled organically above the building, using the sunlight and creating a shaded open air museum at the top of the gantry structure. Combining all the aformationed concepts, the Sustainable Museum of Masdar for the Land Generation plan will be an architetonc reference and cultural incubator for Masdar and the world.

