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5992° elev 2

Inspired by Arabic letters

Land Art Generator Initiative – Land/environmental art installation

As part of design process we were drawing and writing in sand. Arabic letters were blending beautifully, looking almost as nature creations. Since site 3 is close to the airport, our design could be seen by plane passengers. The design is like one of the lines in sand, flowing and forming the word Alshams (الشمس) the Sun.

Why Tent?

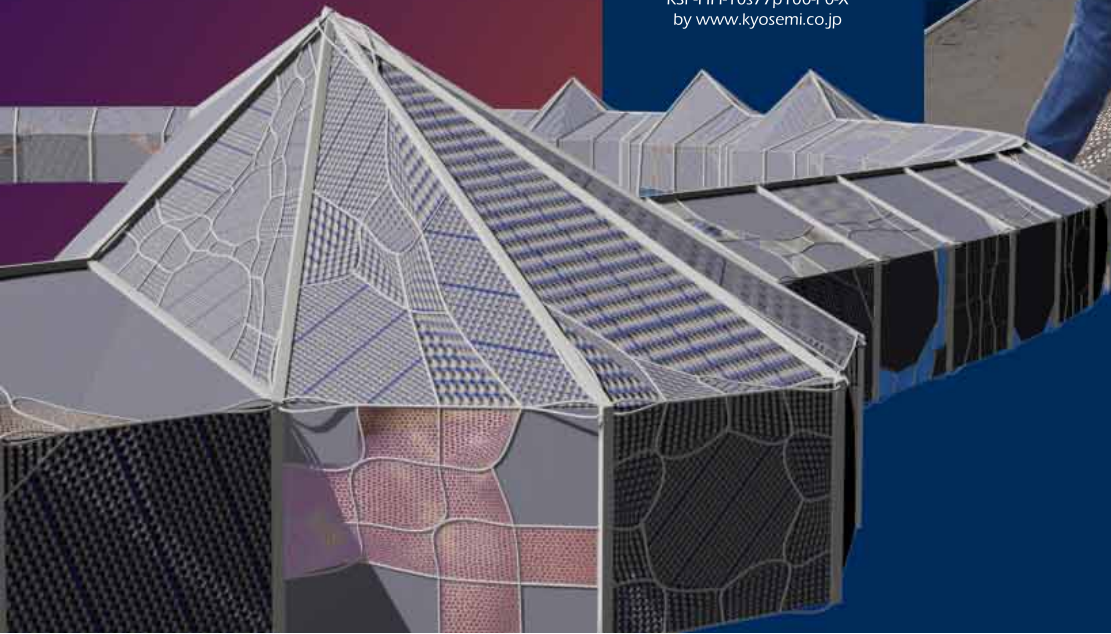
Because it is simple but still performs well. Used by people in desert, it is easy assembly structure, protects from predominant wind and strong sun. This is a new interpretation of the tent. Form is modified, as support structure concrete is used and dome shape photovoltaic solar cells by Kyosemi are attached on the face of a cloth. Cloth is strong to withstand winds and time. Ropes are part of construction, by connecting them in diverse directions, nice cloth shapes can be made. Some of the cloth elements are with holes in order to provide nice draft and ventilation inside the tent. Site 3 can become nice place for excursions and whole structure can be shelter for people and families on picnic. Dome shape (Ø105) photovoltaic solar cells by Kyosemi Corporation harvest the direct, reflected and diffused sunlight and there is no need for sun tracking. Cloth is natural material made locally. Plants existing on the site wouldn't be moved since no pavement is planned. It is assumed that in climate with minor precipitation, ground is dry most of the year and people visiting the site will have their personal blanket or will rent one on the entrance.



KSP-HH-10s77p100-F0-X
by www.kyosemi.co.jp



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Inspired by Wind towers

Used by people of Gulf region to enable fresh air flow into the building and this constant flow of air provides cool environment inside of the building. As part of the letter ش (sh) tree wind towers are positioned to cool exhibition space. This space is partly underground for insulation purposes. The towers are divided (diagonally) on four vertical channels. Towers are oriented at 45° to the prevailing wind in order for larger area to be available to catch the wind and to minimize turbulence at its entrance. Through two channels of the quadrant air is moving into the tower and through two opposite ones the air moving out of the tower (due to the pressure created in the bottom part of the towers). Usually in the afternoon sea breeze will create nice cooling effect, and whole exhibition will have nice microclimate.

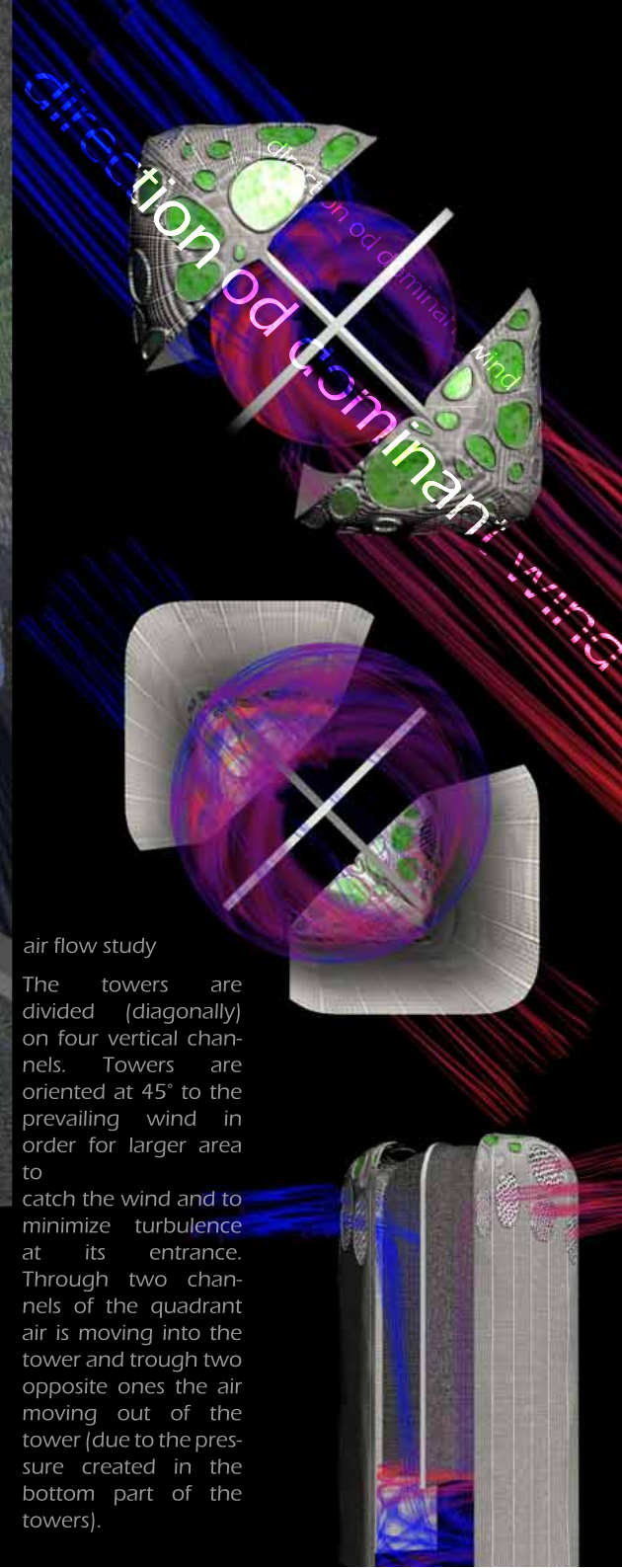
Inside the wind tower

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Inspired by Window plant

Plant native to Namib Desert, window plant, seems to exist in hush environment by its specific characteristics. Big part of the plant is underground and top of this plant is semitransparent and has chlorophyll inside it. In this manner it protects itself from the strong sun and still produces energy inside. Inspired by the window plant, wind tower got another feature. On the top of the wind tower, windows are designed to allow some sunrays to go inside. Inside walls of wind tower are covered with mirrors and dome shaped solar cells.

Glass of the windows is Sony dye-sensitized solar cells.



air flow study

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