

MIRAGE_SOLAR CLOUDS

CONCEPT

Mirage - visual connection to the city

Urban strategically the large site offers an opportunity for development of a connection to the city. Solar Clouds proposed an urban infrastructure which integrated with visions, solar technology, information technology, landscape geometry, irrigation and drainage system. Solar Clouds function as a media between the city and surrounding sceneries.

Glass facade of Solar Clouds embedded with dots of LED lights. At night, lights array imaginatively like upside down skyscrapers lightings. This visual coherence enhances the unique sense of its location and bring potentials of night activities to the site.

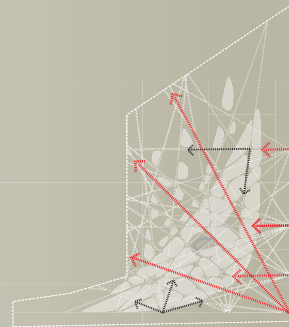
DIAGRAM 01: NIGHT MIRAGE

LED LIGHTS OF SOLAR CLOUDS
NIGHT LIGHTS OF THE CITY



DIAGRAM 02: VISTAS

VIEWS THROUGH SOLAR CLOUDS STRUCTURE
VIEWS FROM TWO HIGH LOCATIONS OF LANDSCAPE



PLAN 1/5000



MIRAGE_SOLAR CLOUDS

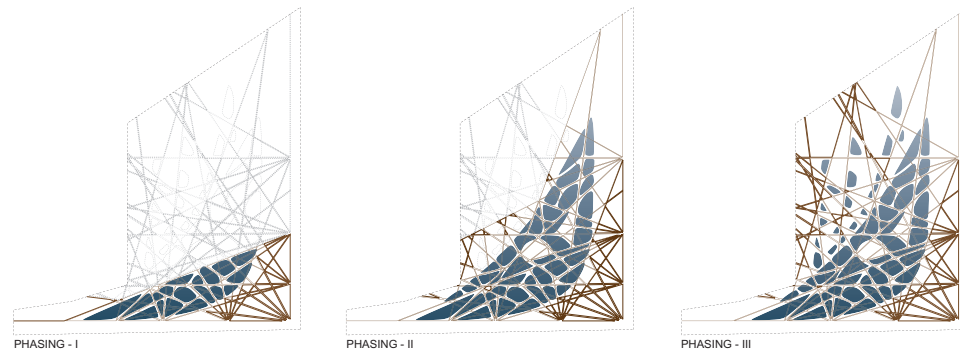


DIAGRAM 03: PHASING

Organic grid system enables Solar Clouds to grow with the time. After PHASE III is completed, a gross electricity output is 21 MWh. Following the grid, further extension phases are possible. Total gross electricity output can up to 64 MWh.

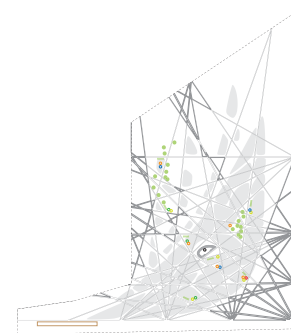


DIAGRAM 04: PROGRAMS

Facilities set up for eco-tourism, environmental information, travel information, arts, events and recreation needs. Solar Clouds not only provide spaces for services but also well shaded spaces for activities.

- SOLAR CLOUDS
- VISITOR CENTER
- ENVIRONMENTAL / ART GALLERIES
- AMPHITHEATRE
- RESTAURANTS / CAFE / SHOPS
- RECREATION FACILITIES (POOLS...ETC)
- OTHER SUPPORT FACILITIES
- SHADING TREES
- CYCLING PARKING
- VEHICLE PARKING

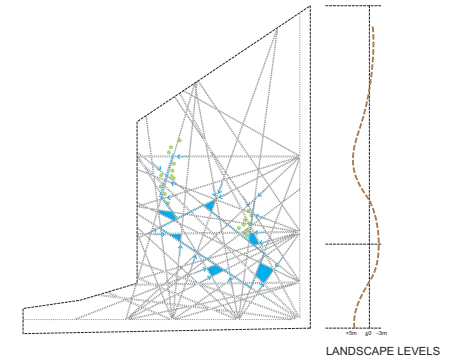


DIAGRAM 05: WATER CHANNELS & RETAINING TANKS

Water Channels correspond with site undulating landscape levels for gathering temporary rain water into underground retaining tanks. Stored water can be used for services and plants.

- WATER RETAINING TANKS (UNDERGROUND)
- MAIN WATER CHANNELS
- WATER CHANNELS
- WATER DRIFTING DIRECTIONS
- SHADING TREES



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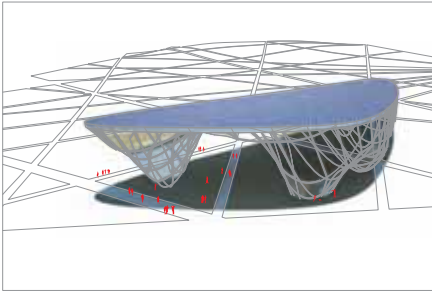


DIAGRAM 06 : SOLAR CLOUDS _ EVENTS

Events Solar Clouds combine with solar panels, technology glass enclosures, LED lights, informative screens, and functional spaces. It can provide services as visitor centre, cafe, shops, exhibition and toilets.

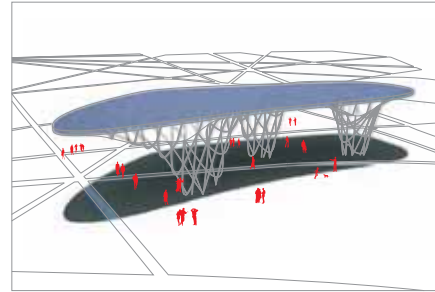


DIAGRAM 07 : SOLAR CLOUDS _ PAVILION

Open steel structure frames support solar panels on the top and provide shaded spaces to visitors.

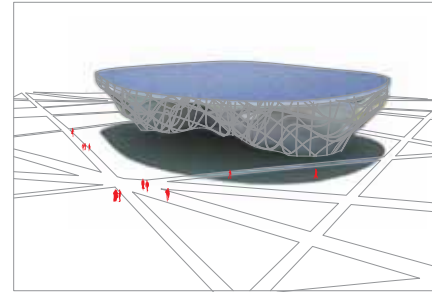


DIAGRAM 08 : SOLAR CLOUDS _ ENERGY

Except glass façade, Energy Solar Clouds has second layer of insulation inner skin for keeping electricity equipments safe. Energy Solar Clouds contains solar energy storages and other supported equipments.

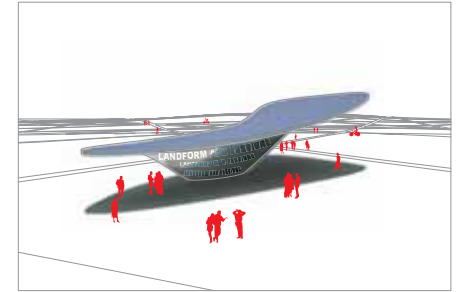


DIAGRAM 09 : SOLAR CLOUDS _ INFORMATION

Glass claddings are embedded with interactive information screens which interact with visitors and provide prompt information.

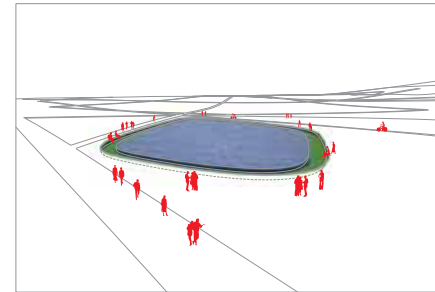


DIAGRAM 10 : SOLAR CLOUDS _ GREEN

Solar panels with weather endurable plants bring greenery views into site. Grasses are automatically watered by site irrigation system.

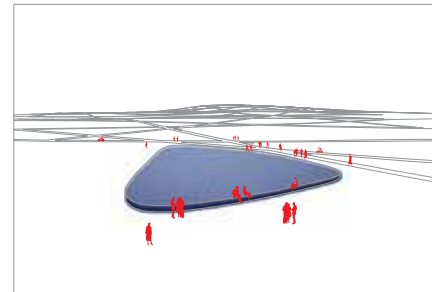


DIAGRAM 11 : SOLAR CLOUDS _ RELAXING

Special insulated cover solar panels installed at 40 cm above ground level for visitors to observe solar panels easily and functions as seated areas.

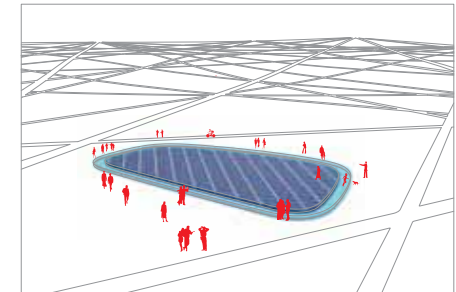
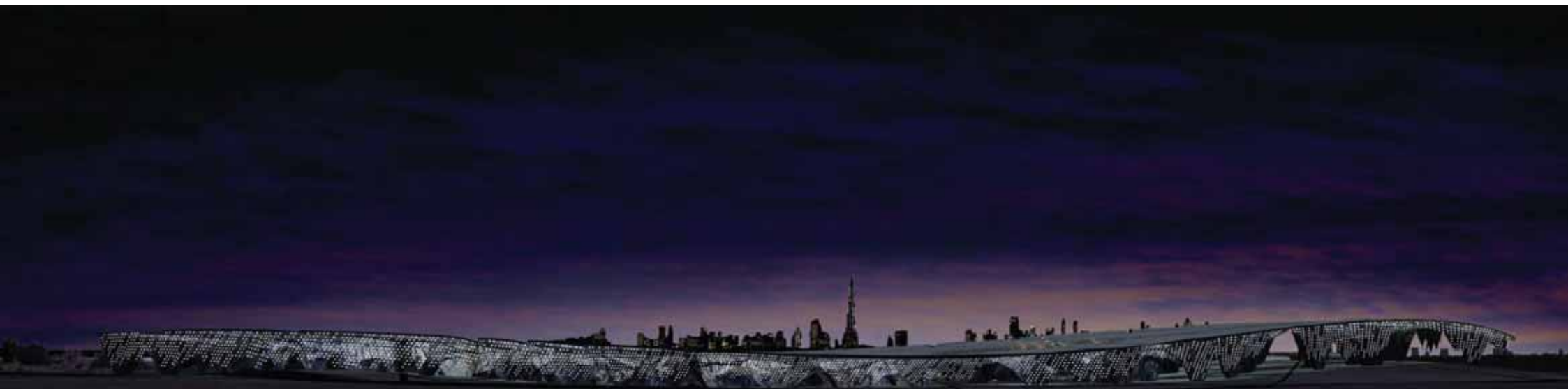


DIAGRAM 12 : SOLAR CLOUDS _ OASIS

Oasis Solar Clouds are surrounded with recreation water surfaces for a cheerful viewing and function as cooling system to surrounding.

TYPES OF SOLAR CLOUDS



MIRAGE_SOLAR CLOUDS



	AREA	POWER
PHASE I	74000 M2	11 MWh
PHASE II	120,000 M2	18 MWh
PHASE III	141,000 M2	21 MWh

TABLE 01: SOLAR POWER IN PHASING

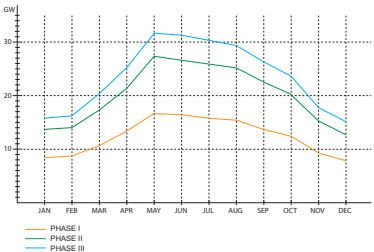


DIAGRAM 14: ELECTRICITY GENERATED IN EACH MONTH

* Note: Calculation was based on insolation, wet days data obtained from www.galima.com

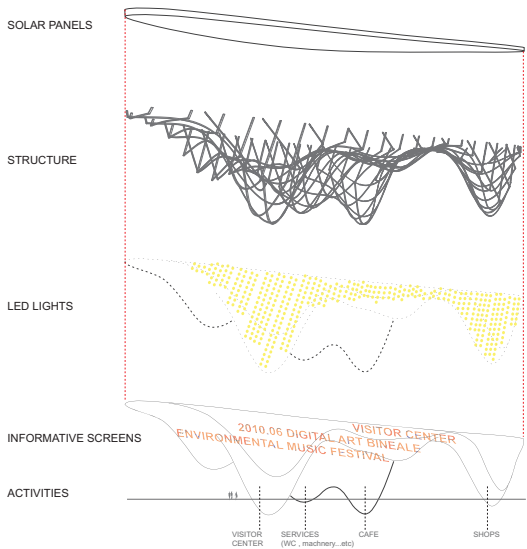
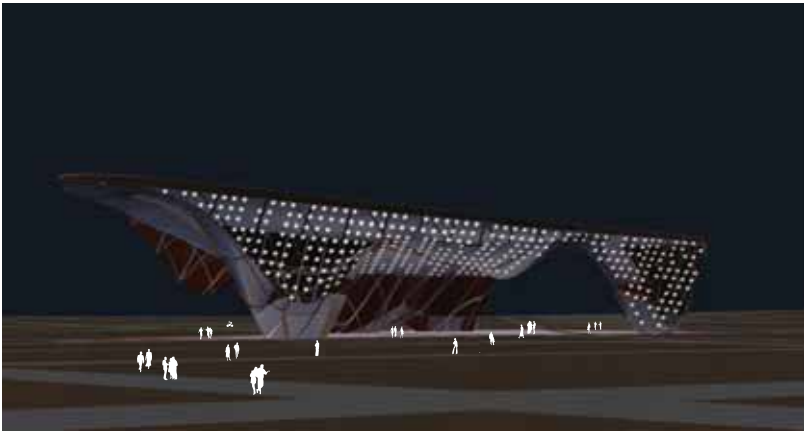


DIAGRAM 13 : STRUCTURAL LAYERS OF SOLAR CLOUDS

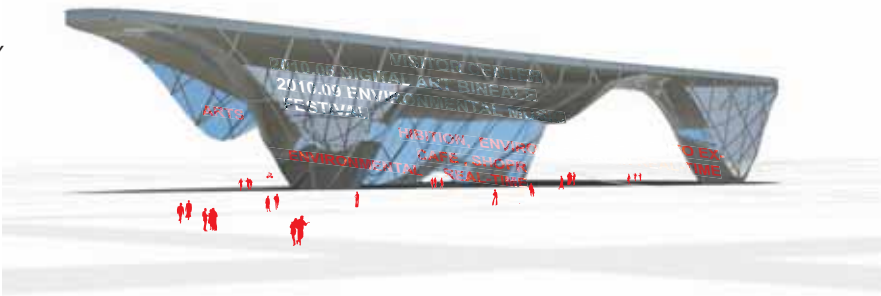
SOLAR CLOUDS _ SINGLE UNIT _ NIGHT

Glass surfaces embedded with LED lights



SOLAR CLOUDS_ SINGLE UNIT _ DAY

Interactive & Informative Screens



IMAGES BELOW : SOLAR CLOUDS FACADE CHANGING ACCORDING TO THE TIME.

