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.
Organic grid system enables Solar Clouds to grow with the time. After PHASE II 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.

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.

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

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 facades, Energy Solar Clouds has second layer of insulation inner skin for keeping electricity supplies safe. Energy Solar Clouds contains solar energy storage 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 exorable plants bring greeny 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 reception water surfaces for a cheerful viewing and function as cooling system to surrounding.
MIRAGE_SOLAR CLOUDS

STRUCTURE

V

S

ITO

20

O

R

EN

D

IGI

ER

G

R

I

AL

AR

T

TB

T

B

INE

E

S

AL

T

I

AR

S

TAL

TAL

H08J21 _4

DIAGRAM 14: ELECTRICITY GENERATED IN EACH MONTH

TABLE 01: SOLAR POWER IN PHASING

DIAGRAM 13: STRUCTURAL LAYERS OF SOLAR CLOUDS

SOLAR CLOUDS _ SINGLE UNIT _ NIGHT

Glass surfaces embedded with LED lights

SOLAR CLOUDS _ SINGLE UNIT _ DAY

Interactive & Informatiive Screens

IMAGES BELOW: SOLAR CLOUDS FACADE CHANGING ACCORDING TO THE TIME