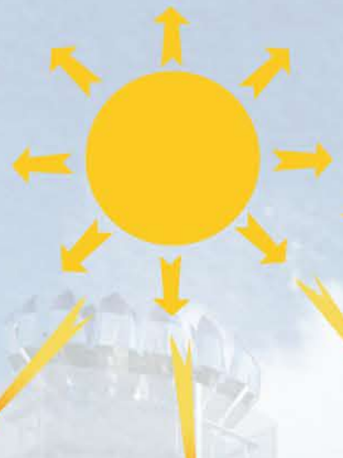
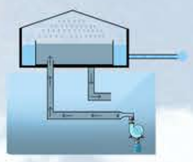
Maximum use of solar energy



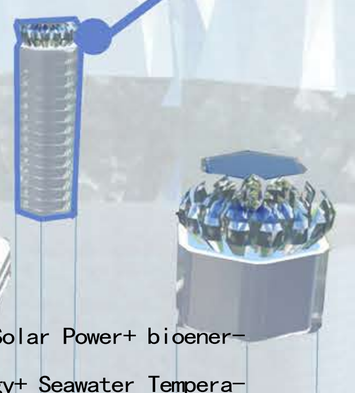


Seawater Desalination

Algae photosyn-
thesis trans-
formation bio-
logical energy

Solar panels

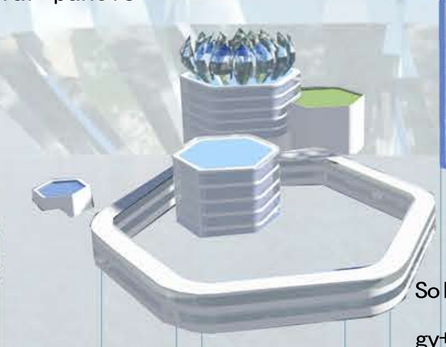
Power Generation by Seawater Temperature Dif-
ference



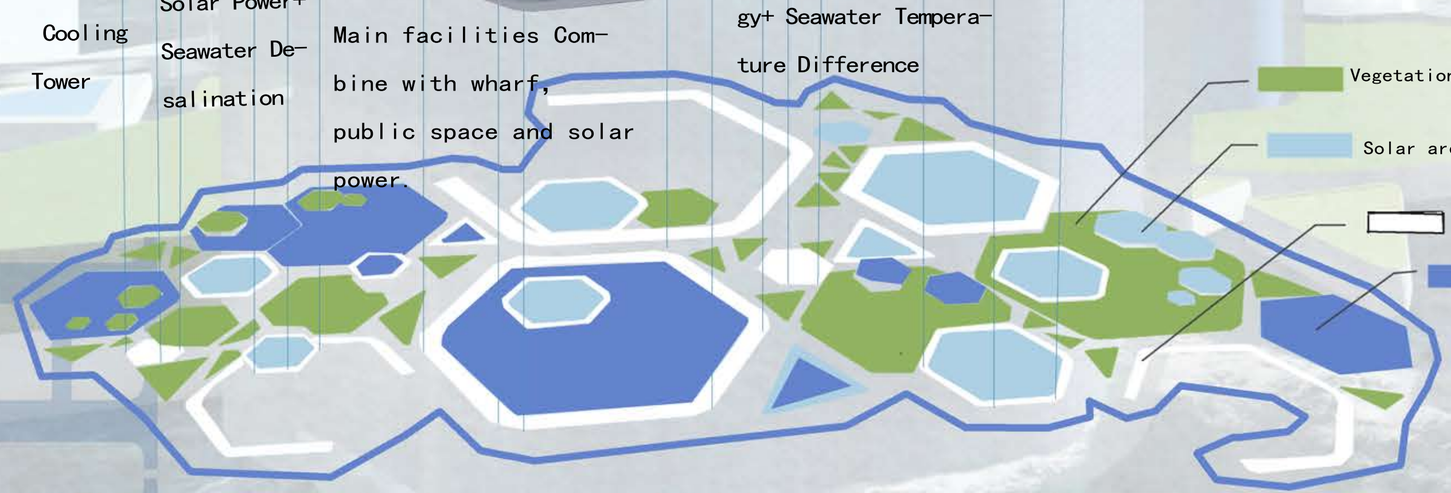
Solar Power+ bioener-
gy+ Seawater Tempera-
ture Difference

Seawater
Cooling
Tower

Solar Power+
Seawater De-
salination

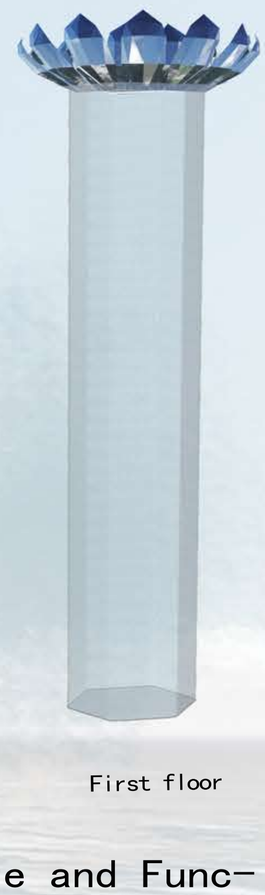


Main facilities Com-
bine with wharf,
public space and solar
power.



The general facility overlooking the island

Second layer

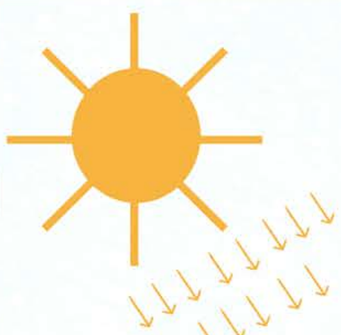


First floor

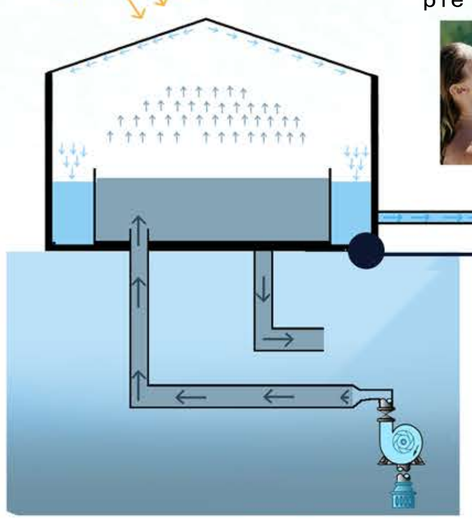
Third layer

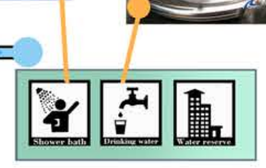
Structure and Func-
tion of Facility Tower

Facility tower has three layers from inside to outside, each layer has different function: The core is function-al, which has power equipment of seawater temperature difference, evaporative desalination space of green-house, and leisure space; the second layer is cultiva-tion area for fluorescence algae, it could occur photo-synthesis during the day and emit fluorescence at night. The outer layer is porous glass which can form green-house effect and power generation.



Fresh water is obtained by the greenhouse effect distillation, and it can provide Peo-ple's Daily life and work.





Seawater desalination ex-tracts seawater to green-house of core in tower and distills it, then trans-ports seawater back to bottom of tower for stor-age.

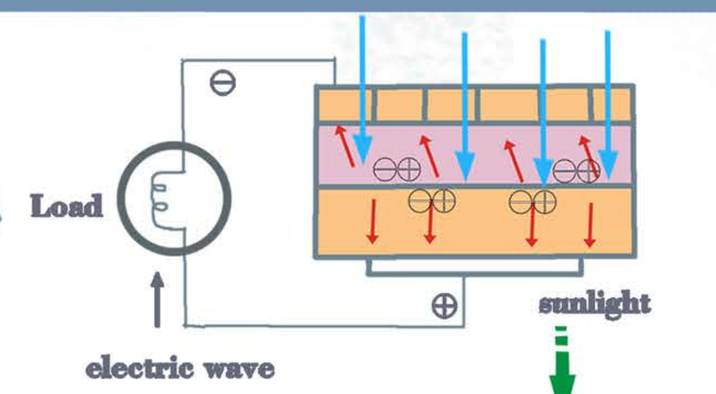
Seawater Desalination

Seawater desalination is production of fresh water with seawater desalting, it is incremental technology of water re-source, increases total fresh water, and not be affected by time, space and cli-mate. The seawater desalination mainly provide drinking water, but salt some :imes also could be a by-product.

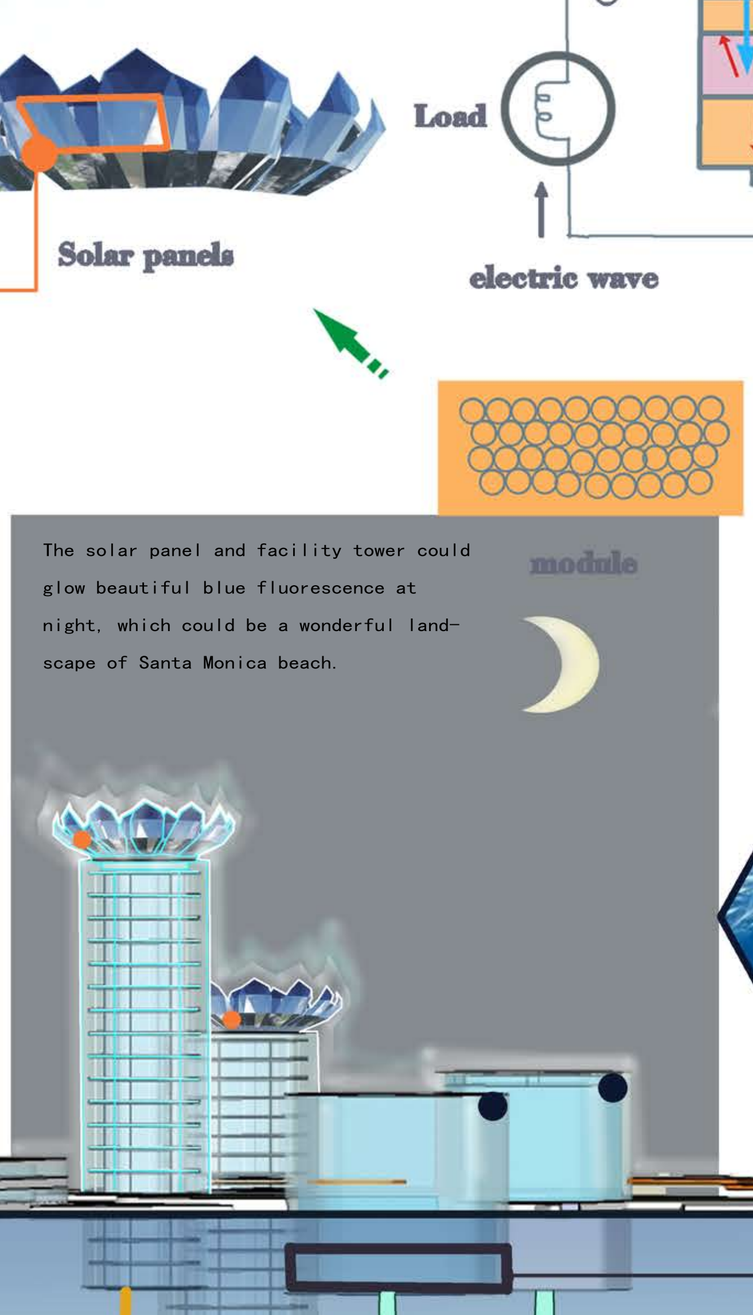
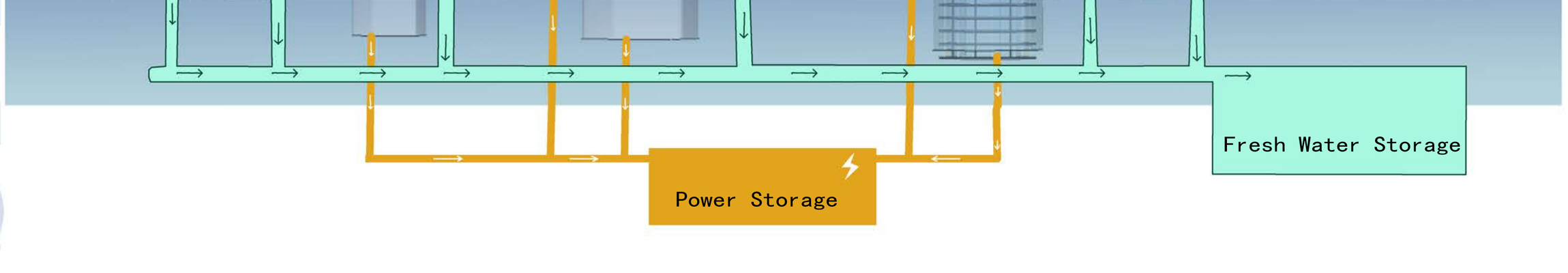
Solar Power

The top part is "petals" composed of solar panels, it can be flexible and can be adjusted according to the sun high Angle and azimuth Angle, the maximum possible capture solar energy.

Solar panels



The solar panel and facility tower could glow beautiful blue fluorescence at night, which could be a wonderful land-scape of Santa Monica beach.



Submarine activ-
ity space