

Solar energy

Bioenergetics

Fresh water resource

Electricity

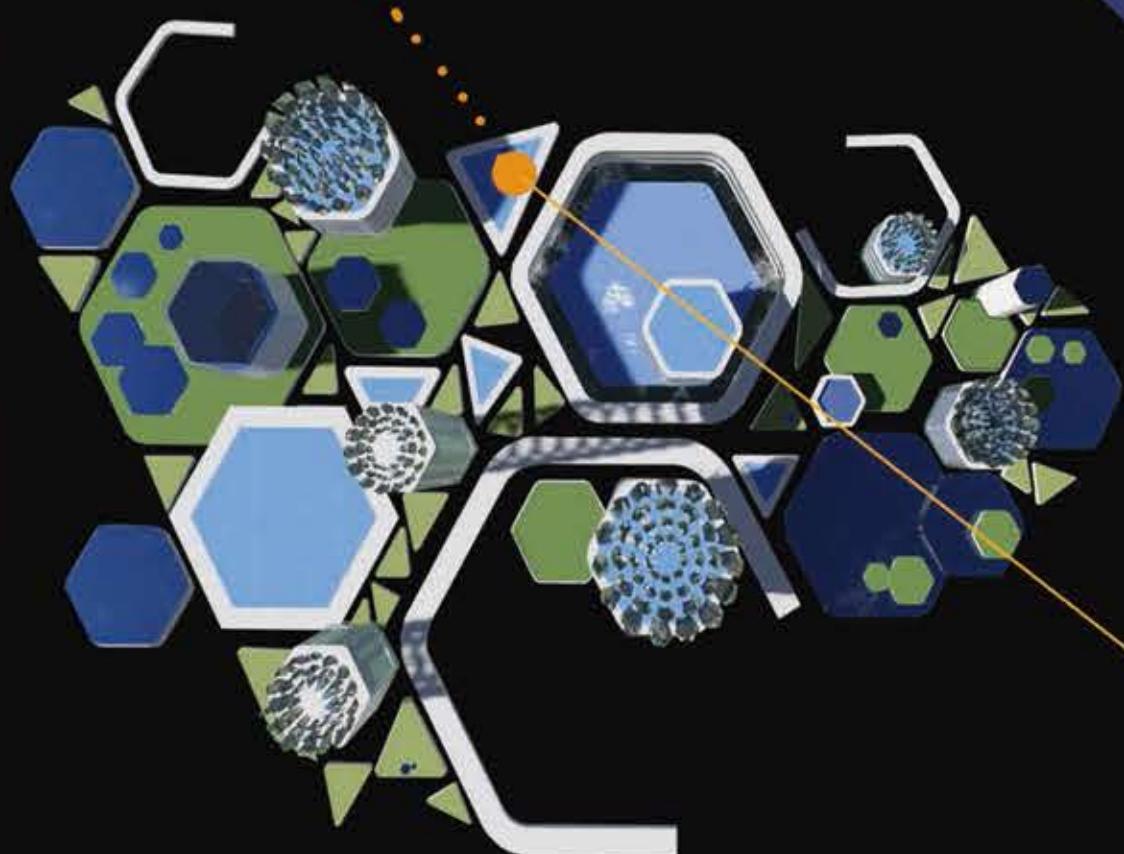
Environment and energy are facing challenges

Location



West coast of California

Perspectives

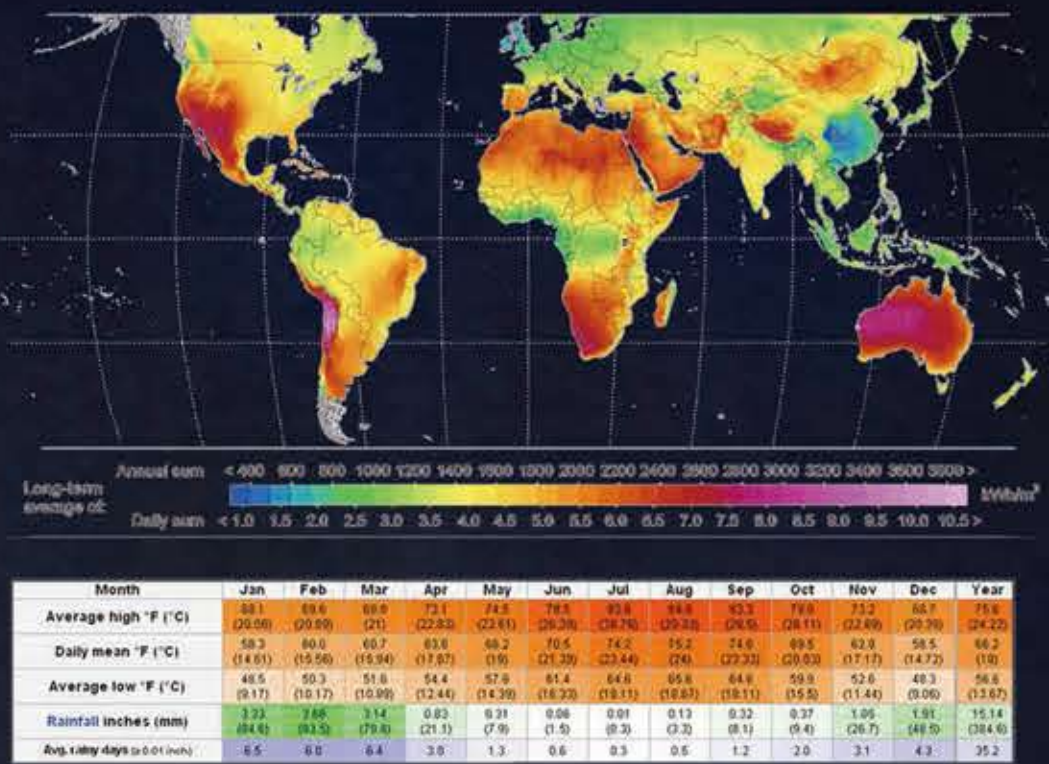


Inspiration Source

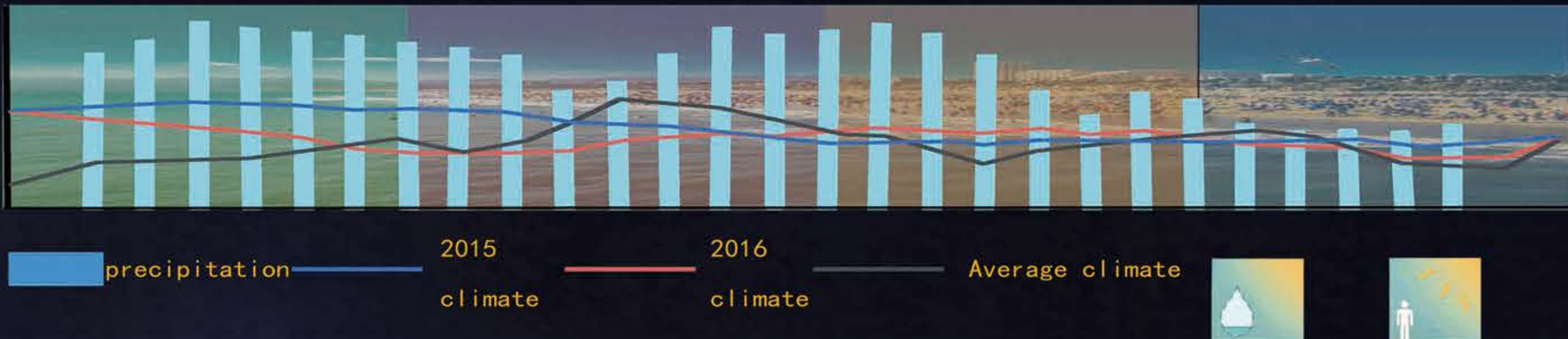
"Fluorescent tower" is a tower facility for function, the source of plan and color for this tower comes from beautiful fluorescence. Because its outer is fluorescent algae layer, so the design has a mysterious blue fluorescence, we call it "fluorescent tower". The plan of this facility is composed of floating islands whose shape just like multiple hexagon, the islands could generate electricity by solar power, water temperature changing and biomass power of fluorescence, and they have other functions, such as water desalination, green floating island, fresh water tank on sea and leisure facilities. Although different parts have different function, we make it a integrated complex by reasonable organization. The strewn shape comes from different function of different parts, including solar power tower, cooling tower, three-dimensional solar greenhouse, fluorescent algae tower and underwater leisure space.

This facility is located in sea beach of Santa Monica, California, USA. It is close to Monica Wharf, and compose of hexagon floating islands and functional fluorescent towers between 20 to 50 metres. People can commute with jet skies and sailing boats. The mysterious fluorescent towers not only enrich the beauty of sea beach, but also create public facilities of landmark and art. At the same time, they meet the function of clean energy and water desalination, and embody the perfect combination of art and sustainable development.

Precipitation and climate analysis



World climate map



Climate and Rainfall in Los Angeles

The climate of California belongs to Mediterranean climate, little drought and less wind. Santa Monica beach has become the landmark of tourism destination, and population have increased year by year, which make it an urgent problem of this region, demand of fresh water and power.



Combination with clean energy technology is used to establish the clean energy facilities, containing power generation by solar, temperature of seawater and biomass resources, and desalinate seawater by solar power, in order to supply energy for scenic tourist development. The use of clean energy could reduce as much negative effect on environment as possible.

Proportion of water use in Los Angeles City

