

## Solar Island

When you take a walk along the Santa Monica Beach, this majestic building will catch your attention. The first component that you will notice is the color of it, which is mainly composed of red and blue. Red represents the sun, and blue represents the ocean. It has curves like the waves of the sea. The goal of this design is to make mankind never forget that the sun and the ocean provides us with endless resources (such as energy) and to educate people to treasure natural resources. Being a renewable and clear energy source of the 21st century, solar power is a very attractive and efficient type of energy. Meanwhile, the source of solar energy in Santa Monica Beach is rich and the condition for utilization is good. So, it is a good place for developing and using solar energy. When you get a closer look at the building, you will find that this is not an ordinary solar house. The material of the roof are photovoltaic ceramic tiles. Photovoltaic ceramic tiles can replace the traditional ceramic tile and solar PV modules can be used to convert sunlight reaching the roof into electric energy. PV ceramic tile is an important solution to allow a wider application of solar PV power technology on the roof-tops. Multi-faceted designs of the roof can increase the area for the collection of sunlight. In addition, the structure of the wall is made by solar glass. Solar glass is mainly used for solar photovoltaic and solar thermal components, packaging, or cover glass. The outdoor space is a circular-flower-patterned pool.

There are floating solar panels on the surface of the water, which look like flower petals. By utilizing the photovoltaic system and floating solar panels for power, the whole island's energy comes from the sun. The process of utilizing solar power helps lower emission of carbon dioxide and other harmful substances. PV is never limited by resources and production materials and it is one of the main alternative energy sources in the future.

We need to have a clear answer for nature, to protect and safeguard the environment, to treasure our natural resources, and tomorrow it will be even more beautiful.