



## CONCEPT

This is a project in order to obtain water and power from the sea. Or, it is a challenge to change to energy for our the huge forces of nature. It goes without saying too late that there is a limit to the earth's resources. And it is not very often the energy that can be used safely and efficiently although research has been conducted all over the world. The important is is not possible to obtain a solid fuel having a definite shape. It seems like that grab the force without form like flow and such as the blood line of the Earth. In particular, It is an enormous sea of force accounts for about 70 % of the earth's surface. Which would be just great if we can change to our resources and energy the mass of a force equal to this infinite in freely?

## WATER ~ grace of the sea ~

The vortex caused by the ocean currents have the power of the more our imagination can not reach. We thought whether can not be filtered impurities from seawater by using this huge force. It is the separation of sea water and brine that apply a principle to drop the dirt of the washing machine by centrifugal force. And we have devised the conversion to go equipment from sea water to drinking water throughout the several filtering gradually. It generates a vortex with pulling the ocean current in the project area. There will be filtered the impurities such as microorganisms by rotation and centrifugal force of the vortex. As a raw material water is in the infinite, and first of force to drive the device will add the ocean currents. The seawater coming flows one after another become a salt water, and it is sent to a second filter. The salt water will be changed to force the fresh water through the highly hydrophobic membrane by the pressure of the water coming rushed one after another. It is a mechanism that the water is supplied to the city Through the end of the filtration tank to withstand in the beverage.

## ELECTRIC ~ power of the sea ~

We thought how to use in another alternative form the immense power of the vortex caused by the ocean currents. It is a method of converting the rotational force caused by vortex power. It is a mechanism that will convey the rotational force sequentially by attaching a kind of the rotary fan-pulsator in the first filter layer for generating vortices. A pulsator to rotate due to the occurrence of vortex would drive the gears installed to the upper part. The four rotational force transmitted one after the other will cause power by activating a dynamo attached to the bottom of the sea in finally. The principle is very simple and the same as wind and hydroelectric power. However, there is no limit to the power of the sea flow into infinite.

## ENVIRONMENTAL IMPACT

Santa Monica is one of the world's leading. And,there is a lot of tourists visit in the beach with a focus on Santa Monica Pier. Especially, the view seen from the beach is beautiful. We felt the resistance for the creation of objects that could destroy its beauty in front of this great landscape. So we extended the idea of Santa Monica Pier the observatory this project, and it was the consideration to reduce as much as possible in the vertical direction height by the design which was imaged the wave that floats horizontally that does not go against the landscape. And the plan tried to fusion with the environment by design so as to draw a pattern of sea and the power and force lines caused by it.

## DRAWING ENERGY

This project began from to draw the power and force of the huge sea. This is a expression of the energy by drawing.